JVC

SERVICE MANUAL

DIGITAL'S DOCKABLE RECORDER

BR-D40U/BR-D40E





TABLE OF CONTENTS

Section	Title	Page	Section	n	Title	Page
INSTRUCTIO	ONS		4.13	I/O SSG SCHEMAT	TIC DIAGRAM	4-15
mornoon.					BOARD	
1 SERVICE	CAUTIONS AND DISASSEME	LY			EMATIC DIAGRAM	
	REMOVE THE OUTER CASE		4.16	PV PROCESS CIRC	CUIT BOARD	4-25
12 HOW/TO	MAKE A DIAGNOSTICS OF				DIAGRAM	
THE MA	IN BOARD	1-2	4.18	RFP CIRCUIT BOA	RD	4-30
1 2 ELINICTI	UNIC DE CIVITOUES INICIDE				ATIC DIAGRAM	
THE S/S	REG BOARD	1-7			BOARD	
1 4 DIAG M	ODE	1-8			HEMATIC DIAGRAM	
	DETECT THE ALARM				CUIT BOARD	
	CODES				TIC DIAGRAM	
	M		4.24	S/S REG CIRCUIT	BOARD	4-45
	A BATTERY				TIC DIAGRAM & CIRCUIT BOAI	
	AND CIRCUIT PROTECTORS	1-25			TIC DIAGRAM & CIRCUIT BOA	
1.10 HOW	TO TAKE A CASSETTE OUT				C DIAGRAM & CIRCUIT BOAF	
IN AN	EMERGENCY	1-26			DIAGRAMS	
1.11 OPERA	ATIONS OF SWITCHES AND SE	NSORS 1-27			TIC DIAGRAM & CIRCUIT BOAI	
	FICATION FOR THE 50PIN CON	INECTOR 1-28		A/C HEAD/BEGIN SI	FG/SP REEL FG/MODE SE ENSE/END SENSE/POWER	SW
	NISM ADJUSTMENTS				ATIC DIAGRAM & CIRCUIT BOA	
	ANISM ADJUSTMENT FLOWCH				UIT BOARD	
	ED MEASURING INSTRUMEN				IS of IC'S	
	MENTS, STANDARD SETUP		4.00	DEOCK DIAGNAM	0 10 0	
	E PROCEEDING TO ADJUSTME		5 FY	DI ODED MEM A	ND ASSEMBLY LIST	
	NANCE AND INSPECTION OF MAI				LY PARTS LIST	E 2
	CAL MAINTENANCE AT EVERY 50		5.1 C	HUCCIC VCCEMBI	LY PARTS LIST LY PARTS LIST	5-7
	CAL MAINTENANCE AT EVERY 10				EMBLY PARTS LIST	
	CAL MAINTENANCE AT EVERY 20				NG ASSEMBLY PARTS LIS	
2.8 MECHA	NISM ASSEMBLING POSITION	I 2-4/			R ASSEMBLY PARTS LIST	
	N AND TORQUE ADJUSTMENT				ASSEMBLY PARTS LIST	
	EAD ADJUSTMENTSSTMENT OF INTERCHANGEAB		0.0 2		7,002,11,22, 17,11,10	
2.11 AD303	OF LINEARITY	2-60	6. EL	ECTRICAL PARTS	LIST	
Z. 12 CITECK	OI LINEARTH	2 00	6.1 A	UDIO & LCD BOA	RD ASSEMBLY PARTS L	.IST 6-2
3 FLECTRI	CAL ADJUSTMENTS				RD ASSEMBLY PARTS LI	
	RICAL ADJUSTMENT FLOWCH	ΔRT 3-1	6.3 1/	O SSG BOARD AS	SEMBLY PARTS LIST	6-13
	RED MEASURING INSTRUMEN		6.4 R	FP BOARD ASSEM	MBLY PARTS LIST	6-19
	MENTS, STANDARD SETUP		6.5 S	S REG BOARD AS	SSEMBLY PARTS LIST	6-23
	E PROCEEDING TO ADJUSTME		6.6 P	RE/REC BOARD A	SSEMBLY PARTS LIST	6-29
	MENT OF SUPPLY VOLTAGE				D ASSEMBLY PARTS LIS	
	MENT OF SERVO CIRCUIT				SEMBLY PARTS LIST	
	MENT OF RF MODULATOR/				RD ASSEMBLY PARTS LIST	
	OULATOR	3-10			RD ASSEMBLY PARTS LIS	
3.7 ADJUST	TMENT OF VIDEO SIGNAL	3-22			RD ASSEMBLY PARTS LIS	
	TMENT OF AUDIO SIGNAL				D ASSEMBLY PARTS LIST	
	TMENT OF CLOCK				ASSEMBLY PARTS LIST .	
					RD ASSEMBLY PARTS LIS	
4. DIAGRAI	MS AND CIRCUIT BOARDS				RD ASSEMBLY PARTS LIST	
4.1 REPLAC	CING SUBMINATURE "CHIP" P	ARTS 4-2			ASSEMBLY PARTS LIST	
	PAGES OF MAIN BOARDS AND CIRCUIT BOAR				ARD ASSEMBLY PARTS LI D ASSEMBLY PARTS LIST	
4.3 POWER	R SUPPLY BLOCK DIAGRAM	4-4			RD ASSEMBLY PARTS LIS	
	& AUDIO BLOCK DIAGRAM				RD ASSEMBLY PARTS LI	
	OL SYSTEM BLOCK DIAGRAM				ARD ASSEMBLY PARTS LI	
	BLOCK DIAGRAM				RD ASSEMBLY PARTS LI	
	CESS BLOCK DIAGRAM		0.22	LIND SEINSE BORI	ID AGOLINIDECTATION LI	J U U4
	OCK DIAGRAM		7 PA	CKING		
	C BLOCK DIAGRAM				LY PARTS LIST	7-1
	BLOCK DIAGRAM		7.1 F	TORING AGGERIDI	=1 17 H H O EIO I	
	LOCK DIAGRAM DN/SERVO BLOCK DIAGRAM					
4.12 313C	JINGERVO DLOCK DIAGRAIN	4-14				

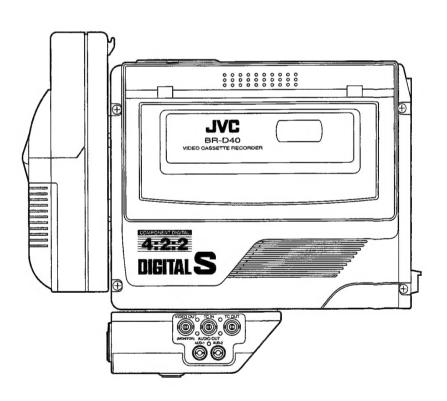


VIDEO CASSETTE RECORDER

BR-D40U/BR-D40E

INSTRUCTIONS

DIGITAL S



SAFETY PRECAUTIONS



CAUTION E

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIREOR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 12V DC only. CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:

The rating plate (serial number plate) is on the bottom of the unit.

This Class B digital apparatus meets all requirements of the canadian Interference-Causing Equipment Regulations.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmfull interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO
CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL
INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY
INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT
MAY CAUSE UNDESIRED OPERATION



ATTENTION

RISQUE D'ELECTROCAUTION . NE PAS OUVRIR



ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCAUTION NE PAS OUVRIR LE BOITIER.

AUCUNE PIECE INTERIEURE N'EST A REGLER PAR L'UTILISATEUR.

SE REFERER A UN AGENT QUALIFE EN CAS DE PROBLEME.



Le symbole de l'éclair à l'intérieur d'un triangle équilatéralest destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Catte tension est suffisante pour provoquer l'électrocution de personnes.



Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretién importantes au sujet desquelles des renseignements se trrouvent dans le manuel d'instructions.

* Ces symboles ne sont utilisés qu'aux Etats-Unis.

AVERTISSEMENT:

POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

Ce magnétoscope ne doit être utilisé que sur du courant direct en 12V.

ATTENTION:

Afin d'eviter tout resque d'incendie ou d'électrocution, ne pas utiliser d'autres sources d'alimentation électrique.

REMARQUE:

La plaque d'identification (numéro de série) se trouve sur le pameau arrière de l'appareil.

Cet appareil numérique de la classe B respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

WARNING ON LITHIUM BATTERY

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat avobe 100°C (212°F) or incinerate.

Replace battery with Matsushita Electric CR2032, use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

CAUTION

To prevent electric shock, do not open the cabinet. No user servicable parts inside. Refer servicing to qualified service personnel.

WARNING:

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or artistic work embodied therein.

Thank you for purchasing the BR-D40 video cassette recorder.

When this unit is used in a stand-alone configuration, it can play videotapes but cannot record them. To accomplish recording with this unit, it should be integrated in a unitary connection with a professional type video camera (JVC KY-19, KY-27 series, KY-D29, etc.).

DIGITALS

This unit is a DIGITAL S format video cassette recorder. Video cassette tapes which are not marked DIGITAL S cannot be used with this VCR.

MAIN FEATURES

- High picture quality thanks to the DIGITAL S format
 The 4:2:2 component digital processing of the format ensures recording and playback with high picture quality.
- High sound quality thanks to the 2-channel PCM audio High-quality digital audio with 16-bit, 48 kHz sampling is provided for 2 channels.
- Designed for direct, unitary connection with the camera
 This unit can form a camcorder system by being combined with a
 JVC professional video camera such as the KY-19, KY-27 series
 and KY-D29 for an excellent footing for newsgathering and other
 recording tasks.
- Concentrated LCD display (with back light)
 The concentrated LCD panel shows the time code and CTL count, tape remaining time, remaining battery power, audio levels, setup menus, hour meter data and a variety of warning indications. It is back-lighted to facilitate viewing under low light conditions.
- Time code reader/generator
 The built-in time code reader/generator can be used to record
 SMPTE(NTSC)/EBU(PAL) time code and user's bits.
- Time code input/output connectors for slave lock capability
 This unit can be slave-locked to an external time code generator
 which is connected to the time code input.

 The data in the built-in time code generator is output from the time
 code output terminal.
- Balanced audio input (camera/microphone/line switchable)
 Highly reliable XLR connectors are provided for audio input. Noise-proof balanced audio input ensures an enhanced sound quality.
- AEF (Automatic Edit Function) enables neat switching between scenes.
- Date/time data recording Apart from the SMPTE(NTSC)/EBU(PAL) time code area, another time code area is provided for the recording of data on the date and time of the day.
- Built-in loudspeaker for audio checking
 The input audio can be monitored in record or EE mode and the reproduced audio can be monitored in play mode.
 The loudspeaker also outputs an alarm tone in case an abnormal condition occurs with the VCR.

The following symptoms will appear when the tapes recorded on other units (including BR -D40) are recorded or played back on this machine.

- The transient section between scenes recorded on other units may appear disturbed.
- Digital noise appears during playback because of tracking errors.

CONTENTS

• INTRODUCTION	
ROUTINE AND PERIODICAL MAINTENANCE	
PRECAUTIONS FOR PROPER USE OF THE VCR VIDEO CASCETTE TO BE USED.	
VIDEO CASSETTE TO BE USED BATTERY PACK TO BE USED	
• CONTROLS, INDICATORS AND CONNECTIONS .	
CONNECTOR PIN LAYOUTS	11
COUNTER DISPLAY CONTENTS	12
• UNITARY CONNECTION WITH CAMERA	 13
SYSTEM CONNECTIONS	14
• POWER SUPPLY	15
AC OPERATION USING THE AA-G10 BATTERY CHARGER	
BATTERY OPERATION ATTACHING THE BATTERY PACK	16
ATTACHING AN ANTON-BAUER BATTERY PACK	17
PREPARATION	18
SWITCHING OPERATE ON/OFF	
CASSETTE LOADING AND UNLOADING	
SETUP MENUS	
SETUP MENU CONFIGURATION DISPLAYING AND SETTING SETUP MENUS	
SETUP MENU CONTENTS	
• RECORDING	
SWITCH SETTINGS FOR RECORDING	
RECORDING PROCEDURE	23
PLAYBACK	. 25
PLAYBACK PROCEDURE	25
FAST FORWARD, REWIND	
• SEARCH	25
TIME CODE OPERATION	26
DISPLAYING TIME CODE	26
SETTING AND RECORDING TIME CODES	
REPRODUCING TIME CODES	
SUB-TIME CODE (DATE, TIME)	29
DISPLAYING SUB-TIME CODE DATA	
SETTING THE DATE AND TIME	30
TROUBLESHOOTING GUIDE	31
ALARM INDICATIONS	31
TROUBLES WITH ERROR CODE OUTPUTS	32
TROUBLES WITHOUT ERROR CODE OUTPUT	33
• GENERAL	. 34
HOUR METER DISPLAY	. 34
HOW TO REPLACE BACKUP LITHIUM BATTERIES	. 34
SPECIFICATIONS	

Install a lithium battery (provided) before use. See page 34 for information about how to install it.

 We cannot assume the liabilities which may derive from the impossibilities of normal recording or playback in case of failure with this VCR or the video cassette in use.

INTRODUCTION

ROUTINE AND PERIODICAL MAINTENANCE

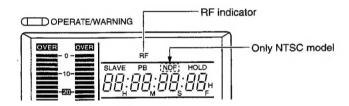
This VCR incorporates precision mechanical parts, which will collect dirt, wear out and deteriorate as the VCR is used. On the other hand, when the VCR has been used for a long period, the heads, drums and tape transport mechanisms also collect dirt deposited on them. Also, dust which penetrates the inside of the VCR specially during outdoor use will promote the wear and deterioration of mechanical parts by causing poor contact between tape and heads or failing to maintain the video and audio quality at high levels.

To prevent wear and deterioration, clean the mechanical parts using a head cleaning tape as routine maintenance. But cleaning with a head cleaning tape alone is not enough for cleaning the entire tape transport mechanism. it is also recommended to apply periodical maintenance (inspection) to prevent troubles which may be caused by the sudden occurrence of failure.

As the replacement, adjustment and servicing of parts require advanced skill and equipment, please consult the person in charge of professional video equipment at your nearest JVC-authorized service agent.

Head Cleaning

- To maintain high video and audio quality, clean the heads by using the special head cleaning tape about every 20 hours.
- Use the optional DCL-5 as the head cleaning tape.
- Do not use head cleaning tapes other than specified. Read the instructions of the head cleaning tape for its operating procedure and precautions.
- When dust is deposited on the video head of the VCR, the RF indicator lights up on the display during the back-space operation in record-pause mode. The indicator does not light up during recording.



Periodical Maintenance

Contents: Check or replace the following mechanical parts according to the running time.

Running Time	500H	1000 H	1500H	2000H
Drum ass'y (including heads)	•	•	•	•
Head cleaner	•	•	•	•
Tape guides & rollers	0	0	0	•
Fixed heads	0	0	☆	•
Belts & pinch rollers	0	•	0	•
Drive parts	0	0	☆	•

- The drum assembly (including O: Clean, check and adjust. heads) and the head cleaner should be replaced every 500 hours.
 - ☆: Clean and check. Replace as required. : Replace.
- The maintenance contents may be variable depending on the operating environment and method. Therefore, the above data should be considered as a reference.

Time management

The running time of the VCR can be confirmed with the hour meter display (which shows the drum running time). For details, see "HOUR METER DISPLAY" on page 34.

For consultations related to the maintenance programming or cost, please contact the person in charge of professional video equipment at your nearest JVC-authorized service agent.

PRECAUTIONS FOR PROPER USE OF THE VCR

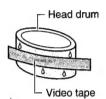
Handling and Storage Precautions

- Avoid using or placing the VCR in places;
 - · subject to extreme heat or cold;
 - subject to strong magnetic or electromagnetic field (Particularly, avoid using a transceiver within a distance of 2 meters from this VCR.
 - · with excessive dirt or dust;
 - · with high humidity or moisture;
 - subject to smoke or vapor such as near a cooking stove;
 - subject to strong vibrations or on an unstable surface.
 - Also do not leave the VCR for long hours in a parked car under direct sunlight or near room heating equipment.
- Protect the VCR from being splashed with water (especially when shooting in the rain).
- Protect the VCR against penetration of dust when using it in a place subject to sandy dust.

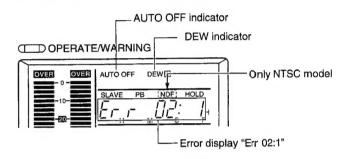
- Use the VCR in an upright position. If placed on its side, heatrelease efficiency will deteriorate, adversely affecting the tape transport.
- Do not drop or hit it against a hard object. (Special care is required to avoid shocks during transportation.)
- Remove the video cassette before transporting the VCR.
- Do not insert an object other than a video cassette in the cassette insertion slot. Be sure to close the cassette cover when the VCR is not to be used for a long period
- To avoid condensation inside the VCR, do not transport it between places with a large difference in temperature.
- Do not set the POWER switch to OFF or remove the power cable during recording or playback. Otherwise the tape may be damaged.
- When the VCR is not in use, be sure to set the POWER switch in order to OFF to save power consumption.

Condensation

- When the VCR which has been cooled down completely in a cold place is carried to a warm place, the moisture contained in the warm air may attach to the head drum or tape guides and be cooled into water droplets. This phenomenon is referred to as condensation (dewing). When this occurs in a VCR, the head drum and tape guides are covered with droplets allowing the tape to be stuck to them, leading to tape damage.
- Condensation occurs in the following cases:
- When the VCR is suddenly moved from a cold place to a warm place.
- When the room heater has just started or when the VCR is exposed directly to cold air from the air conditioner.
- When the VCR is placed in a very humid place.



 When condensation occurs with this VCR, the DEW and the AUTO OFF indicator on the display lights up, the error code "Err 02:1" appears on the counter display (see page 32).
 To assist this, leave the VCR with the power ON and wait until the error code "Err 02:1" and the DEW indicator disappear from the display.



VIDEO CASSETTE TO BE USED

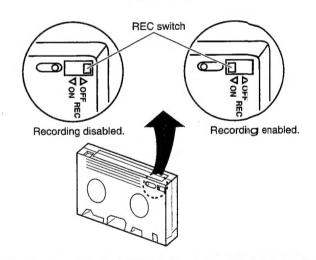
Use video cassette tapes marked with DIGITAL S for this VCR.
 Recording and playback time of the usable video cassette models is given below.

Video Cassette Tape	Record/Play Time
DS-104	Approx. 104 min.
DS-64	Approx. 64 min.
DS-34	Approx. 34 min.
DS-10	Approx. 10 min.

- Video cassettes marked with S-VHS or VHS cannot be used with this VCR. If you insert an S-VHS or a VHS cassette in the VCR, it will be ejected automatically.
- · Video cassettes cannot be used upside down.
- Avoid storing a video cassette with unevenly wound tape, as this may damage the tape. Rewind it to the beginning before placing a cassette into storage.
- After a video cassette tape has been used repeatedly, it becomes unable to maintain full performance due to an increase in noise caused by dropouts, etc. Do not continue to use a dirty or damaged tape, as this will reduce the rotary head life.

- The video cassette tape marked DIGITAL S is provided with a REC switch for use in preventing accidental erasure.
- Slide the REC switch to OFF to protect the precious recording in the tape from being overwritten.
- To record on the tape, slide the REC switch to ON.

REC switch



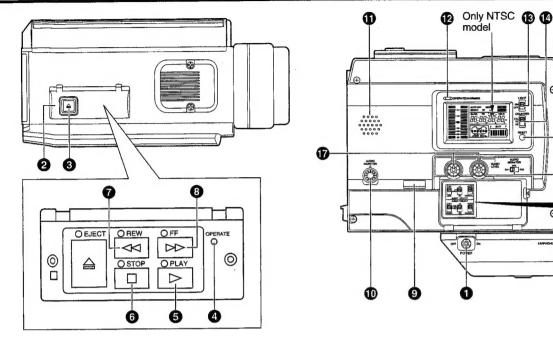
BATTERY PACK TO BE USED

This VCR can use any of the following battery packs.

- JVC battery pack: NB-G1U
- Flat Shape Type battery pack
- Anton-Bauer battery pack : Trimpack 13/14 Series, Magnum 13/14 Series, Compack 13/14 Series.

To display the remaining battery power accurately, set "BATT. TYPE SELECT" in setup menu Group 4 according to the type of the battery pack in use. (See page 21)

- An Anton-Bauer battery pack cannot be attached to this VCR directly.
 - An additional battery holder is required.
 - Battery holder: Anton-Bauer model QRQ27
 See page 17 for the battery holder attaching method.



POWER switch

Turns the main power supply ON and OFF. Set to OFF when neither the VCR nor the camera is used. When set to OFF, all the VCR and the camera operations are disabled.

2 Operation cover

When this cover is opened after setting the POWER switch to ON, the VCR enters OPERATE ON mode, in which the OPERATE indicator lights in green, the LCD display appears and the VCR is ready to be operated. Once the VCR enters OPERATE ON mode, it is maintained even after the operation cover is closed later. If a cassette tape has been inserted when the VCR enters OPERATE ON mode, the cassette tape remains in stop mode.

If the VCR is in OPERATE OFF mode even when the operation cover is open, the VCR can be put to OPERATE ON mode by pressing the OPERATE switch 4.

EJECT button

Press to eject the cassette tape. This button can be operated in any mode. It can be pressed even when the operation cover is closed. The LED indicator above the EJECT button lights up during the ejection operation.

OPERATE switch

This switch is interlocked with the operation cover. If the VCR is in OPERATE OFF mode even when the operation cover is open, the VCR can be put to OPERATE ON mode by pressing then releasing this switch.

PLAY button

Press to start playback. In play mode, the VCR outputs the video and audio signals of normal playback and the LED indicator above the PLAY button lights.

- * If the autotracking is active at the moment the play mode starts, the playback video will be interfered with digital noise. The audio output during this period is the linear track audio.
- * This button is not effective if pressed in the REC or REC PAUSE mode. Press the STOP button before pressing this button.

6 STOP button

Press to enter stop mode by stopping the recording and the tape transport. The drum keeps rotating in stop mode. However, when stop mode has continued for about 30 minutes, the VCR enters tape protect mode, in which the drum stops rotation and the tape tensioner is released. It takes more time than usual to enter the record or play mode from the tape protect mode. The LED indicator above the STOP button lights in stop and tape protect modes.

 The time until tape protect mode is initiated can be set to 1, 5 or 30 minutes with setup menu item "LONG PAUSETIME SELECT".

REW button

Press to rewind tape.

- Pressing the button in stop or fast forward mode initiates rewind mode. The LED indicator above the REW button lights in this mode.
- Pressing the button during playback or forward search in itiates reverse search at about 6 times the normal play speed. The LED indicators above the PLAY and REW buttons light during reverse search.

The search audio recorded in the linear track is reproduced during reverse search.

FF button

Press to fast forward tape.

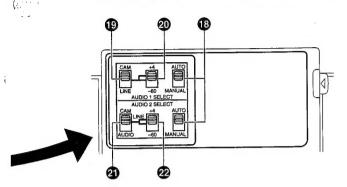
- Pressing the button in stop or rewind mode initiates fast torward mode. The LED indicator above the FF button lights in this mode.
- Pressing the button during playback or reverse search in itiates forward search at about 6 times the normal play speed. The LED indicators above the PLAY and FF buttons light during forward search.

The search audio recorded in the linear track is reproduced during forward search.

Lithium Battery Installation Case

Install a lithium battery in this case. The battery is used for the backup of the time code and the date/time data. The VCR is delivered without the battery installed. Install the lithium pattery provided (CR2032). See page 34 for information about now to install it.

[AUDIO 1/2 switch setting block]



10 AUDIO MONITOR control

Adjusts the volume of the monitoring loudspeaker and earphone. The audio is muted when this control is set to the minimum position.

The volume of the alarm tones can be adjusted with the ALARM control.

Monitoring loudspeaker

Enables EE monitoring of the audio signal selected with the AUDIO MONITOR switch in record, record-pause or stop mode. It also reproduces the audio recorded on tape when the VCR is in play mode. The loudspeaker volume can be adjusted with the AUDIO MONITOR control.

The audio from the loudspeaker is defeated when an earphone is plugged into the EARPHONE jack. The warning alarm tones are also output through this loudspeaker.

For details, see pages 31 and 32.

P OPERATE WARNING indicator

This LED indicator lights in OPERATE ON mode. It lights in green while the VCR is operating normally.

 It lights or blinks in red in the case of a warning condition related to the remaining tape time, remaining battery power or other abnormal condition in the VCR.

For details, see pages 31 and 32.

LIGHT switch

Turns the display back light ON or OFF.

ON: The display is back-lighted.

OFF: The display is not back-lighted.

(Keep this switch to OFF during battery operation of the VCR or when it is required to reduce the power consumption for a certain reason.)

COUNTER switch

Selects the contents displayed on the LCD counter.

CTL : Set to this position to display the CTL counter.

: Set to this position to display time codes or when presetting the time code.

: Set to this position to display the user's bits of time UB codes or presetting the user's bit.

 Time codes or user's bits can be displayed provided that the TC DISP switch in the time code/setup menu setting block is set to TC. If it is set to SUB TC, the date and time data is displayed in its place.

(B) RESET button

- · Press to reset the CTL counter value.
- · Pressing the button during time code or user's bit presetting operation resets the time code or user's bit data to "00:00:00:00".

MAUDIO MONITOR switch

Selects the audio channel to be output at the loudspeaker and earphone jack.

DA1: Set to this position to monitor the Digital Audio 1 channel.

MIX: Set to this position to monitor the mixed sound of the Digital Audio 1 and 2 channels.

DA2: Set to this position to monitor the Digital Audio 2 channel.

AUDIO LEVEL control

Adjusts the audio recording level of the Digital Audio 1 or 2 channel when the AUTO/MANUAL switch (18) in the AUDIO 1/2 switch setting block is set to MANUAL.

Adjust so that the sound level meter peak does not exceed -5dB when large sounds are input.

* The DA-2 AUDIO LEVEL control does not take effect when the AUDIO2 INPUT SELECT switch 2 is set to AUDIO1.

13 AUTO/MANUAL switches

Select the method for adjusting the recording level of the Digital Audio 1 and 2 channels.

AUTO

: The audio recording level is held at the reference level even when sounds greater than the reference input level are input.

The recording level does not increase when the

input level is low.

MANUAL : The audio recording level of each channel can be adjusted with the AUDIO LEVEL control.

1 AUDIO 1 INPUT SELECT switch

Selects the input signal to be recorded in the Digital Audio 1 channel.

CAM: Receives the audio signal of the camera microphone through the camera connector (50-pin).

LINE: Receives the audio signal input through the AUDIO 1 input connector. The reference audio input level can be

selected with the AUDIO 1 INPUT LEVEL switch 20.

@ AUDIO 1 INPUT LEVEL switch

Selects the line input level of the Audio 1 channel between +4 dB and -60 dB.

3 AUDIO 2 INPUT SELECT switch

Selects the input signal to be recorded in the Digital Audio 2 channel.

: Receives the audio signal of the camera microphone through the camera connector (50-pin). Set to this position when the camera uses a stereo microphone.

• The audio is not input if this position is used with a monaural camera microphone.

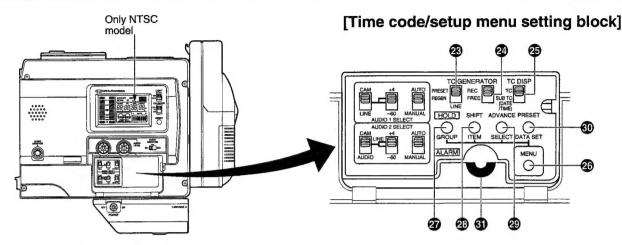
LINE

: Receives the audio signal input through the AUDIO 2 input connector. The reference audio input level can be selected with the AUDIO 2 INPUT LEVEL switch @.

AUDIO 1: Receives the audio signal selected with the AUDIO 1 INPUT SELECT switch also in the Digital Audio 2 channel. Set to this position when the camera uses a monaural microphone.

2 AUDIO 2 INPUT LEVEL switch

Selects the line input level of the Audio 2 channel between +4 dB and -60 dB.



Time code generator setting switches

PRESET/REGEN switch

Selects the time code generator mode between PRESET and REGEN.

PRESET: Preset mode. Set to this position when newly presetting and recording the time code. Also use this position when the camera is to be slave-locked to an external time code generator connected to the TC IN connector.

REGEN: Regeneration mode, in which the VCR reads existing time codes on the tape and records time codes by succeeding them. Set to this position when you want to connect additional time codes to a tape in which time codes have already been recorded as far as the middle.

2 REC/FREE run switch

Selects the time code running mode while the time code generator is in preset mode. This switch is not effective in the REGEN mode.

REC : The time code runs only during recording. This position allows you to record continual time codes when recording scenes one after another.

FREE: The time code runs permanently. Set to this position when the VCR is slave-locked with an external time code generator.

 If this position is used when recording scenes one after another, the time codes become discontinuous at the change points between scenes.

7 TC DISP switch

When the COUNTER switch (1) is set to TC or UB, it selects the type of time code to be displayed on the counter display.

TC: Ordinary time codes or user's bits are displayed. SUB TC: Data in another time code area (sub-time code area)

: Data in another time code area (sub-time code area) is displayed. This VCR records the date and time data in this area.

For details, see "SUB-TIME CODE" on page 29.

29 MENU button

Press to initiate setup menu mode.

In setup menu mode, the MENU indicator lights on the display and the counter display transforms to the menu display. Pressing this button in setup menu mode returns to the normal mode.

@ HOLD/GROUP button

- Press when presetting the time code or user's bit. The presently
 displayed data is held (the HOLD indicator lights on the display)
 and the leftmost digit of the counter blinks. Pressing this button
 during time code or user's bit presetting cancels the operation
 and recalls the previous display contents.
- In setup menu mode, this button is used to select the menu group.

3 SHIFT/ITEM button

- During time code or user's bit presetting, press to select the digit to be set. Each press of the button shifts the digit to be set (which blinks) to the right.
- In setup menu mode, this button is used to select the menu item.

ADVANCE/SELECT button

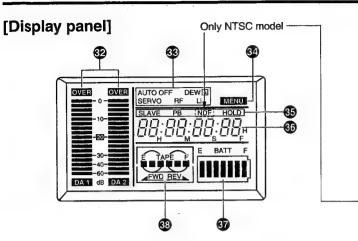
- During time code or user's bit presetting, press to select the value of the digit to be set. Each press of the button increases the number by 1.
- In setup menu mode, this button is used to select the value of a menu item.

PRESET/DATA SET button

- During time code or user's bit presetting, press to save the set value in the preset memory. The set time code or user's bit will be preset in the time code generator.
- In setup menu mode, this button is used to save the menu item setting the data in the memory.
- For details of the time code or user's bit presetting, seepage 27.
- For details on the setup menus, see page 20.
- The buttons from a to above are also used in setting the date and time of SUBTC data. For the date and time setting, see page 30.

ALARM control

Turn to control the volume of the alarm tone which is output from the monitoring loudspeaker or earphone in case of a warning or other abnormal condition occurring with the VCR. Turn this control as counterclockwise to dawn the volume. Setting this control to the minimum position mutes the alarm tone.



32 DA 1/DA 2 audio level meters

These are the signal level meters for the Audio 1 and 2 channels. They show the input audio signal levels when the VCR is in EE or record mode. When it is in play mode, they show the audio reproduction level of the audio recorded on the tape. The peak levels are held for about 2 seconds.

33 Warning indicators

■ AUTO OFF indicator

Lights when a non-recoverable error (e.g. tape winding error, drum stopped, etc.) occurs with the VCR. This indicator also lights if condensation occurs.

For details, see "TROUBLES WITH ERROR CODE OUTPUTS" on page 32.

■ DEW indicator

Lights when condensation (dewing) occurs on the drum or other mechanism in the VCR.

The VCR reject all operations while this indicator is lit. When the condensation has disappeared, the indicator turns off and the VCR accepts operations again.

■ SERVO indicator

Lights when the drum servo is troubled during recording to indicate that normal recording is not being made.

■ PE indicator

Lights when the video head is clogged.

The head clog is detected during back-space between different scenes. Note that it is not detected during recording.

 Should this indicator light up, clean the head using the special head cleaning tape.

See the manual for the head cleaning tape (DCL-5) which is specifically made for this unit.

■ Li indicator

This is the lithium battery indicator which lights when the lithium battery which backs up data of the built-in time code generator is nearly exhausted and indicate the necessity of replacement. See page 34 for information about how to replace lithium batteries.

MENU indicator

Lights up when the VCR is put to setup menu mode by pressing the MENU button.

35 Time code-related indicators

■ SLAVE indicator

This is the slave lock indicator which lights when the built-in time code generator is slave-locked (synchronized) with the LTC time code signal input at the TC IN connector. For the slave lock of the time code, see page 28.

■ PB indicator

This is the time code playback indicator which lights when the time code is in playback mode.

■ NDF indicator (Only NTSC model)

This is the non-drop frame indicator which lights when the framing mode of the built-in time code generator or the reproduced time code in play mode is in the non-drop frame mode.

This indicator does not light in drop frame mode.

- It lights permanently when the CTL counter is in use.
- HOLD indicator

Lights when the time code generator display is held by pressing the HOLD button in the time code setting block.

The time code or user's bit can be preset while this indicator is lit.

Counter display

- Usually, this section shows the data of the CTL counter, time code or user's bit. The display mode can be selected with the COUNTER switch.
- When the COUNTER switch is set to TC or UB:
 The date and time data can be displayed by setting the TC DISP switch at to SUB TC.
- This section shows the setup menu data when the VCR is set to the setup menu mode by pressing the MENU button.
 The setup menu also includes the hourmeter (drum usage).
- This section shows an error code when an abnormal condition occurs with the VCR.

For details on the counter display, see page 12.

3 Remaining battery power indicator

Shows the remaining battery power with a 7-dot segment bar display.

 To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use.

For details on the remaining battery power display, see page 12.

Cassette/tape direction/remaining tape time indicators

Cassette tape



: Lights when the VCR is loaded with a cassette tape. Blinks during ejection or tape loading.

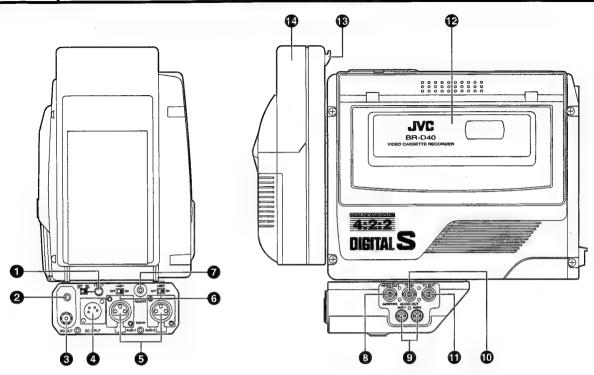
Tape direction
 FWD REV

: One of the indicators lights according to the tape transport direction.

Remaining tape
 E TAPE F

: The remaining tape situation is shown with a 6-dot segment bar display.

For details on the remaining tape display, see page 12.



1 TALLY lamp/switch

- When the TALLY switch is set to ON, the tally lamp lights when the VCR is in record mode. It blinks during transition to record mode.
- The tally lamp also blinks when an abnormal condition occurs with the VCR.
 - For details, see pages 31 and 32.
- When the TALLY switch is set to OFF, the tally lamp does not light or blink even in the above cases.

2 EARPHONE iack

This is a stereo mini-jack for use in connecting an audio monitoring earphone. Plug in a 3.5 mm dia. earphone or headphone plug.

The earphone can also be used to monitor alarm tones depending on situations.

The sound from the monitoring loudspeaker is interrupted when an earphone is connected here.

O DC OUT connector

Power output connector to a wireless microphone transmitter, etc. The supply voltage is identical to the voltage supplied to the VCR (DC 12V == max. 0.1 A).

O DC INPUT connector (XLR 4-pin)

Power input connector for 12 V DC. Connect with the optional AA-G10 battery charger.

When a cable is connected here, the power supply from the battery pack is interrupted and the source is switched to the power supplied through this connector.

6 AUD-1 AUD-2 IN connectors (XLR 3-pin)

The Audio 1 and 2 channel input connectors function as the line inputs for connecting external audio equipment including a microphone. Set the AUDIO INPUT SELECT switch and AUDIO INPUT LEVEL switch according to the connected equipment.

6 REMOTE connector

Connect with equipment which can remote control the start and stop of recording (e.g. Sony RM-81).

1 +48V switch

Switches the +48 V power for a phantom microphone ON/OFF.

VIDEO OUT connector (BNC)

Composite video output connector.

It outputs the video signal from the camera in record or EE mode.

It outputs the video signal reproduced from the tape in play mode.

- · No compensation is made for the setup level.
- The setup menus, time codes and date/time data are not output.

AUDIO OUT connectors (RCA)

Analog audio output connectors, which output the audio signal from the camera in record or EE mode and the audio signal reproduced from the tape in play mode.

The alarm tone is not output.

TC IN connector (BNC)

Input connector for the SMPTE(NTSC)/EBU(PAL)-standard LTC signal. The built-in time code generator can be slave-locked with the input time codes.

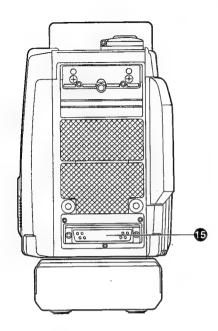
For the slave lock of time code, see page 28.

TC OUT connector (BNC)

Output connector for the LTC signal from the built-in time code generator.

The time code recorded on the tape is not output in play mode.





Cassette cover

When the VCR is in OPERATE ON mode, pressing the EJECT button on the top of the VCR opens this cover so that a cassette tape can be inserted or removed from the VCR. The cover can be locked automatically by pushing and closing it.

 To prevent penetration of foreign objects in the VCR, do not leave the VCR with the cassette cover open.

Battery case release button

Push to unlock the battery case cover. The battery case cover should be opened while pushing this button.

Battery case

Load a Flat Shape Type battery pack or the JVC NB-G1U battery pack.

For details, see "ATTACHING THE BATTERY PACK" on page

(D-sub 50-pin)

For connection with the 50-pin connector of the camera to be connected.

The power supplied to the camera is 12 V at max. 1.7 A (max. 20 W).

 It is not possible to connect the RM-G410 editing control unit to this VCR.

CONNECTOR PIN LAYOUTS

Camera Connector (50-pin)

No.	Signal	No.	Signal
1	+5V	33	GND
5	POWER GND	35	GND
6	POWER GND	36	B-Y IN
13	VTR ID OUT	38	PB(L) OUT
15	MIC1 GND	39	POWER SUPPLY (12V)
16	MIC1 (C)	40	POWER SUPPLY (12V)
17	MIC1 (H)	41	YIN
18	RETURN VIDEO OUT	42	GND
22	MIC2 GND	43	COMPOSITE VIDEO IN
23	MIC2 (C)	45	CAMERA ID IN
24	MIC2 (H)	46	S-VHS(L) OUT
25	SAVE CONTROL IN	47	SERIAL DATA IN
26	RETURN SW IN	48	VTR STATUS OUT
27	VTR START/STOP	49	REC TALLY OUT
29	R-Y IN	50	WARNING SIG OUT
32	RETURN AUDIO OUT		

Other pins are not used by this VCR.

AUD-1/AUD-2 IN Connectors (XLR 3-pin)



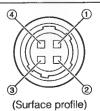
NO.	Signal
1	GND
2	НОТ
3	COLD

DC INPUT Connector (XLR 4-pin)



NO.	Signal
1	GND
2	_
3	_
4	+ 12V

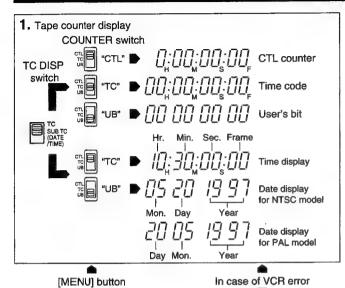
DC OUTPUT Connector



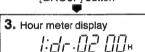
NO.	Signal
1	GND
2	
3	_
4	+12V (Fower through)

4. Error code display

COUNTER DISPLAY CONTENTS







Remaining Tape Time Display

The 6-dot segment bar display shows the remaining tape time in record and play modes. The lighted segment bars decrease as the remaining tape decreases.

The reference tape time is as shown below. (■: Lighted. Shown below.

E TAPE F	Near the beginning of tape
E TAPE	More than 25 minutes of remaining tape. ("F" extinguished.)
E TAPE	10 to 15 minutes of remaining tape. (This display represents the beginning of the tape in the case of DS-10.)
E TAPE	2 to 5 minutes of remaining tape.
E TÀPÉ :	Less than 2 minutes of remaining tape. (The last dot and "TAPE" blink.)
TAPE	End of tape. ("TAPE" and "E" blink.)

- · When the tape has ended completely, a warning is provided by an alarm tone, etc.
- . The remaining tape information is not displayed when no cassette tape is loaded or during the remaining tape calculation which takes place immediately after a cassette tape is inserted.

The counter display shows the following 4 types of information.

1. Tape counter display

The counter display usually functions as a tape counter (hour. minute, second, frame). It can be switched to a CTL counter, time code or user's bit display by using the COUNTER switch. (Provided that the TC DISP switch is set to TC)

• CTL counter: Time between -9 hr. 59 min. 59 sec. 29(NTSC)/24(PAL) frames and 9 hr. 59 min. 59 sec. 29(NTSC)/24(PAL) frames can be displayed. The run mode is fixed at the nondrop frame mode.

: Time between 0 hour and 23 hr. 59 min. 59 • Time code sec. 29(NTSC)/24(PAL) frames can be

displayed.

· User's bit : Hexadecimal number from 00 to FF is displayed in 8 digits.

By setting the TC DISP switch under a cover on the side panel to SUBTC, the time and date data can be displayed here.

· When the COUNTER switch is set to

TC: The time (hour, minute, second, frame) is displayed.

UB: The date (month, day, year) is displayed.

Press the MENU button to switch to the setup menu setting display.

2. Setup menu setting display

This display is used when setting the setup menus. After having set the setup menus, press the MENU button to return to the tape counter display.

For details, see "SETUP MENUS" on page 20.

3. Hour meter display

The hour meter is displayed in the setup menu Group 1. The hour meter data refers to the head drum running time.

4. Error code display

The error code is displayed automatically in case an abnormal condition occurs with the VCR.

For details of error codes, see "TROUBLES WITH ERROR CODE OUTPUTS" on page 32.

Remaining Battery Power Display

The 7-dot segment bar display shows the remaining battery power. The lighted segment bars decrease as the remaining battery power decreases.

- To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use.
- The menu has been set for a Flat Shape Type battery pack (12V) or the JVC NB-G1U when the VCR left the factory.



All segment bars light when a fully-charged battery pack is attached.



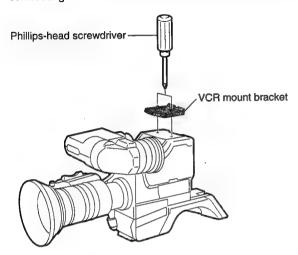
The last 2 segment bars and "BATT" start to blink when the battery is nearly exhausted. Replace with a fully-charged battery pack.



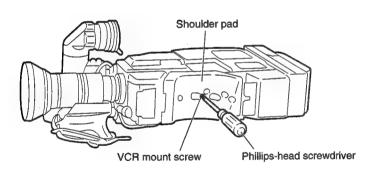
When the battery capacity has run out, "E" and "BATT" blink and the VCR stops operation automatically. It will enter the OPERATE OFF mode.

UNITARY CONNECTION WITH CAMERA

- Separate the camera adapter from the camera and attach the shoulder pad.
 - With the KY-27 or KY-D29 camera, the VCR mount bracket has been removed before attaching the camera adapter.
 Attach the removed VCR mount bracket again before connecting the camera with this VCR.

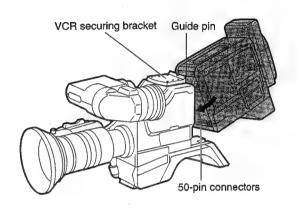


Insert a Phillips-head screwdriver through the hole on the camera shoulder pad and fasten the VCR to the camera by turning the VCR mount screw.

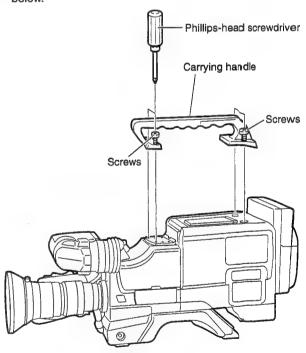


- * Use M4 screws as VCR mounting screws. Ensure that the installation length to the VCR is no longer than 4 mm.
- * For the JVC camera, use the screws supplied with the camera.

2. Connect the 50-pin connectors of the BR-D40 and camera by aligning and fitting the guide pin of the BR-D40 into the Vgroove on the VCR mount bracket of the camera.



4. Fasten the provided carrying handle with 4 screws as shown below.

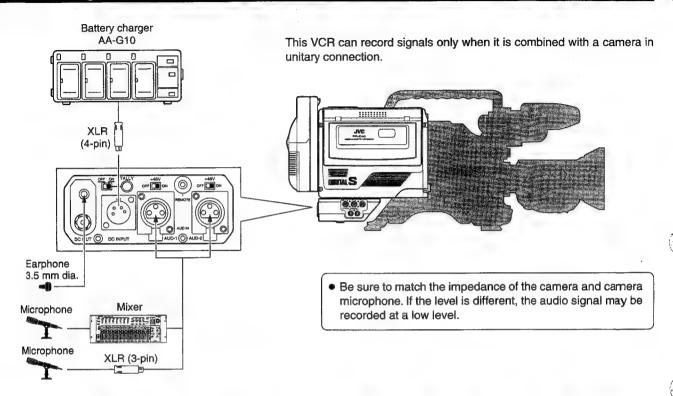


CAUTION

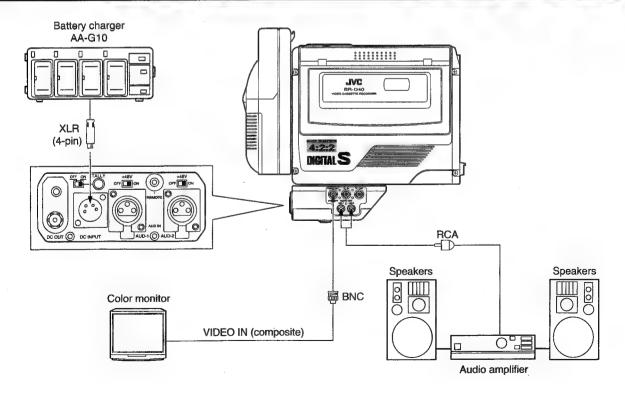
Tighten the screws securely. Otherwise the VCR may drop from the camera during use.

SYSTEM CONNECTIONS

For Recording



For Playback



POWER SUPPLY

The power of the VCR can be supplied from the following sources.

1. AC operation

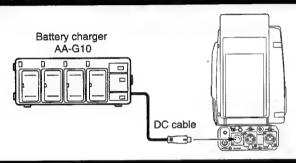
Use the JVC AA-G10 battery charger (max. rated output 4 A, 12 V DC) as the AC power supply.

2. Battery operation

Usable battery packs

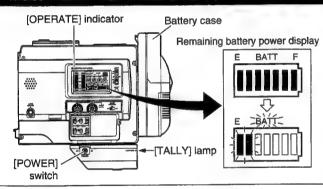
- JVC battery pack : NB-G1U
- · Flat Shape Type battery pack
- · Anton-Bauer battery pack
 - : Trimpack 13/14 Series, Magnum 13/14 Series, Compack 13/14 Series
- When using an AA-P250 as the AC power source, use a camera whose power consumption is less than 13W.
- Do not use any power source with large fluctuations in the power source voltage as with ripples or other noise.
- An Anton-Bauer battery pack cannot be attached to this VCR directly.
 - An additional battery holder is required.
- Battery holder: Anton-Bauer model QRQ27
 See page 17 for the battery holder attaching method.

AC OPERATION USING THE AA-G10 BATTERY CHARGER



- After making sure that the power switches of the VCR and of the AA-G10 are set to OFF, connect the DC cable from the AA-G10 to the DC INPUT connector of the VCR as shown in the illustration.
- Push the VCR switch of the AA-G10 to ON then press its POWER button to ON.
- Press the POWER switch of the VCR to ON.
 Now power is supplied to the VCR as well as the camera.
 - To use the VCR, put it in OPERATE ON mode (see page 18).
 - For details, read the instruction manual of the AA-G10.

BATTERY OPERATION



Recharging the NB-G1U Battery Pack

The NB-G1U battery pack should be recharged using the AA-G10 or AA-P250 battery charger. The AA-G10 battery charger can recharge up to four NB-G1U units successively.

Recharging procedure (for AA-G10)

Battery packs are recharged in sequence by spending 60 to 90 minutes for each. Finally, they are topped up simultaneously by normal recharging for 1 hour.

- Be careful against over-charging. The battery pack should be discharged completely before being recharged.
 - If a battery pack is recharged before it has been completely discharged, the available operating time may be reduced.

Battery Caution

- Do not leave a battery pack under high temperatures (e.g. in a car under direct sunlight). Otherwise battery fluid leakage or shortening of the service life may result.
- When a battery pack is used in a cold environment (below 10°C), the operating time is reduced even with a fully-charged battery pack.
- If the available operating time with a fully-charged battery pack decreases considerably, it is a sign that the service life of the battery pack is almost ending. Purchase a new battery pack in this case.

- 1. Attach a fully-charged NB-G1U or other Flat Shape Type battery pack onto the battery case. For the attaching method, see page 16.
 - An Anton-Bauer battery pack cannot be attached to the battery case of this VCR.
- 2. Set the POWER switch of the VCR to ON.

 Now power is supplied to the VCR and camera.
 - To use the VCR, put it in OPERATE ON mode (see page 18).
- When the DC cable is connected to the DC INPUT connector, the power supply from the battery pack is interrupted and the power starts to be supplied through the DC INPUT connector.

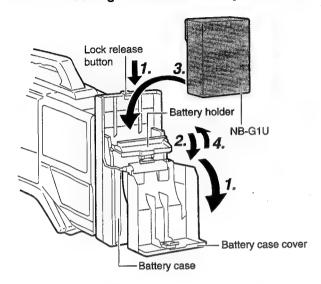
■ Remaining battery power display

The remaining battery power can be confirmed on the LCD (see page 12).

- When the battery power is nearly exhausted, the last 2 segment bars and the "BATT" indicator of the remaining battery power display blinks, and the OPERATE indicator and TALLY lamp blink in red.
 When the above blinking starts, replace the battery pack with a
 - fully-charged battery pack as soon as possible.
- If the same battery pack continues to be used after the blinking has started, the VCR eventually stops operation and enters the OPERATE OFF mode.
- To display the remaining battery power accurately, set the setup menu item "BATT. TYPE SELECT" according to the type of the battery pack in use. This item has been set at the factory to either the NB-G1U or the Flat Shape Types (12VDC).
- When the VCR is used in an unitary connection with the KY-27 camera, about 30 minutes of battery operation is possible using a NB-G1U battery pack (at an average current of 2.2 A/hr). However, this period is merely a reference value and variable depending on the age, running time and the recharging condition of the battery pack. For example, the available operating time may be reduced when zooming is used frequeratly.

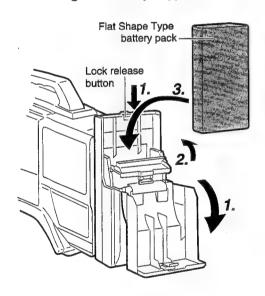
ATTACHING THE BATTERY PACK

Attaching the NB-G1U Battery Pack



- Open the battery case cover while pushing the lock release button.
- 2. Tilt the battery holder in the arrow-indicated direction.
- Insert the battery pack into the battery case with its electrodes facing the VCR.
- **4.** Close the battery holder in the arrow-indicated direction and close the battery case cover.
- To avoid damage to the battery holder, be sure to close the battery holder before closing the battery case cover.
- Turn the power of both the VCR and camera OFF before replacing the battery pack.

Attaching a Flat Shape Type Battery Pack



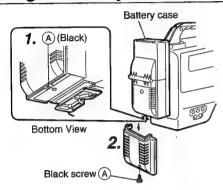
- Open the battery case cover while pushing the lock release button.
- 2. Tilt the battery holder in the arrow-indicated direction.
- Insert the battery pack into the battery case with its electrodes facing the VCR.
- 4. Close the battery case cover.
 - Turn the power of both the VCR and camera OFF before replacing the battery pack.

ATTACHING AN ANTON-BAUER BATTERY PACK

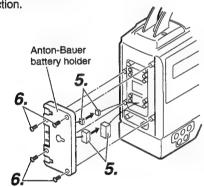
When an Anton-Bauer battery pack (Trimpack 13/14, Magnum 13/14, Compack 13/14 Series) is used, it is required to remove the battery case from the VCR and attach the Anton-Bauer battery holder in place. Use the battery holder model described below.

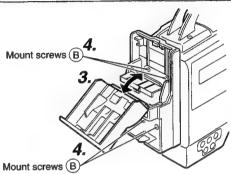
• Battery holder: Anton-Bauer model QRQ27

Removing the Battery case from VCR and Attaching Anton-Bauer Battery Holder In Place



- 1. Remove the black screw (A) from the bottom of the battery case.
- 2. Remove the lower half of the battery case cover in the downward direction.



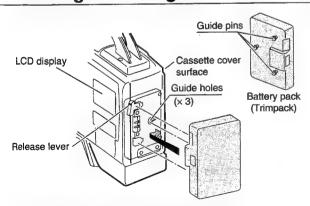


- 3. Open the battery cover and battery holder.
- 4. Remove the 4 mount screws (B), disconnect the connectors between the VCR and the battery cover, and separate the battery case from the VCR.

Attaching the Anton-Bauer battery holder

- 5. Connect the connectors from the VCR and those of the battery holder (connect 2 pairs of connectors including the large and small ones).
- **6.** Secure the battery holder onto the VCR using the 4 mount screws supplied with the battery holder.
- Be careful not to pinch the connector wires; otherwise a malfunction may result.

Attaching/Detaching Anton-Bauer Battery Pack

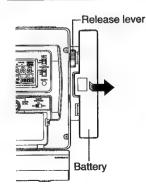


Attaching the battery pack

Align the 3 guide pins of the battery pack with the guide holes on the battery holder, and push straight to insert the battery pack. The battery cannot be attached properly if the guide pins are not inserted straight.

- 2. Slide the battery pack toward the side panel where the cassette cover is located until it clicks.
- → Now the battery pack has been attached.

Detaching the battery pack



■ While pushing and holding the release lever, slide the battery pack toward the side panel where the LCD display is located, then pull the battery pack outward to remove.

PREPARATION

SWITCHING OPERATE ON/OFF

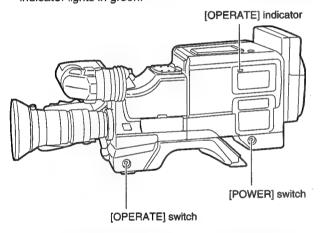
The VCR operations are possible only when it is in OPERATE ON mode. The VCR can be put to OPERATE ON mode in two ways.

1 - Set the POWER switch of the VCR to ON.



Switching OPERATE ON from the camera

 $oldsymbol{2}_{oldsymbol{ \cdot }}$ Set the Operate switch of the camera to "VTR STBY". The VCR enters OPERATE ON mode and the OPERATE indicator lights in green.



If a recordable cassette tape has been loaded in the VCR, the VCR enters the record-pause mode (provided that the REC switch on the cassette tape is set to ON).

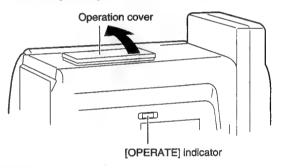
To return to OPERATE OFF mode

- Set the OPERATE switch of the camera to "VTR SAVE".
- → The VCR enters OPERATE OFF mode and the OPERATE indicator turns off.

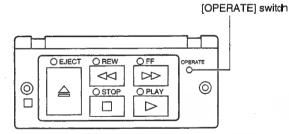
Switching OPERATE ON from the VCR

2. Open the operation cover.

The VCR enters OPERATE ON mode and the OPERATE indicator lights in green.



- · Switching the power ON with the operation cover open will activate the OPERATE ON mode.
- ■Press the OPERATE switch if the VCR does not enter OPERATE ON mode even when the operation cover is opened.



3. The VCR remains in OPERATE ON mode even after the operation cover is closed.

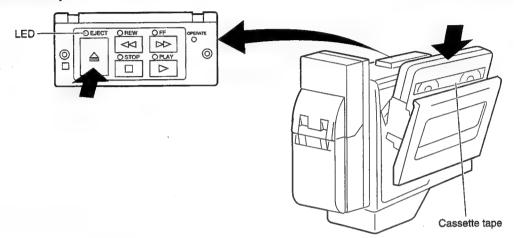
To return to OPERATE OFF mode

■In stop mode or after ejecting the cassette, set the POWER switch of the VCR to OFF.

CASSETTE LOADING AND UNLOADING

A cassette tape can be loaded in or unloaded from the VCR while it is in OPERATE ON mode. These operations are not possible in OPERATE OFF mode.

- · Use a video cassette tape marked DIGITAL S.
- A S-VHS or VHS video cassette tape cannot be used with this VCR. If you insert a S-VHS or VHS cassette in the VCR, it will be
 ejected automatically



Loading the Cassette

1 Press the EJECT button to open the cassette cover. The LED indicator above the EJECT button lights and the cassette cover opens.

Insert a cassette tape after removing the tape slack.

Slowly close the cassette cover by pushing it in all the way. The tape is loaded automatically when the cassette cover is closed.



The cassette indicator on the display blinks during tape loading and lights steadily after the loading has been completed.

 The condition at the completion of loading is variable depending on the OPERATE switch of the camera and the REC switch on the back side of the cassette tape as shown below.

OPERATE switch	REC switch of Cassette Tape		
of Camera	ON	OFF	
VTR STBY	Enters record-pause mode after back-spacing.*	The VCR enters stop mode.	
VTR SAVE or when camera is not connected	The VCR enters stop mode.		

- It is possible to start recording from the record-pause mode by pressing the VTR Start/Stop button of the camera.
 For the recording procedure, see page 23.
- After the cassette cover is closed, it takes about 10 seconds before the VCR can start recording or enter the stop mode.

CAUTION -

When closing the cassette cover, be sure to push it in all the way. When the cassette cover is not closed completely, it is left in a half-locked state, in which the VCR accepts no operation. In this case, push the cover again all the way to get it locked firmly. When the cassette is in place and the cassette cover is only half-locked, the Occassette indicator in the LCD display will not appear. When the cassette cover is properly locked, the indicator is displayed.

Unloading the Cassette

- 1. Press the EJECT button.
- → The LED indicator above the EJECT button lights and tape ejection starts.



The cassette indicator on the display blinks during tape ejection and turns off after the ejection has been completed.

It takes a few seconds before the cassette cove**r** opens after the EJECT button is pressed.

- 2. Take out the cassette tape.
- 3. Close the cassette cover.

CAUTION -

Do not leave the VCR for a long period with the cassette cover open.

Otherwise dirt or other foreign objects may enter the VCR, and cause malfunction.

SETUP MENUS

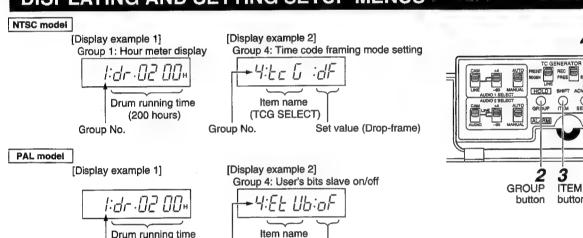
The setup menus can be set by referring to the counter display of the VCR. The set contents are stored in the memory and held even after the power is switched OFF.

SETUP MENU CONFIGURATION

The setup menus are divided into 4 groups. Groups 1, 2 and 3 consist of display-only items such as the hour meter display, while Group 4 contains some items which can be set individually as required.

Setup menus **Display/Setting Contents** Group 1 -------- Hour meter (Drum running time) display Group 2 ----- Remaining tape (hour:min.) display Battery voltage display Group 3 Group 4 : Selection of time code generator framing mode (drop frame/non-drop frame) : Selection of user's bit during slave locking to time code (ON/OFF) Item : Selection of battery type (12 V/13.2 V/14.4 V) Item : Selection of long pause time (1 min./5 min./30 min.) Item : Selection of low-frequency cutting of audio input signals (OFF/ON/CH1 only/CH2 only) Item

DISPLAYING AND SE



(U-BIT SLAVE)

Set value (off)

Group No.

- **7** Enter setup menu mode. Press the MENU button.
- The MENU indicator lights on the display and the counter display shows the setup menu.
- Select the group. Press the GROUP UP button.

Group No.

The group No. shown on the counter display changes.

(200 hours)

- · Each press of the GROUP button changes the displayed group No. from Group 1 Group 2 Group 3 Group 4 Group 1....
- To exit from setup menu mode after simply confirming the display in Group 1, 2 and/or 3, press the MENU button now. The VCR returns to normal mode.
- Proceed to the following steps when you want to confirm or set the setup menus in Group 4.
- Select a Group 4 item. Press the ITEM button
- The setup menu item shown on the counter display changes.
- Pressing the ITEM button when the Group 1,2 or 3 display is shown does not change it.

- $m{4}$ Select the setting value of the selected setup menu item. Press the SELECT button to select the setting value.
 - Repeat steps 3 and 4 above for each of the items you want to set.

1,6 [MENU] button

- **5.** Save the setting value. Press the DATA SET button.
- "SAVE" is displayed on the counter and the setting value is saved in the VCR memory. The counter display returns to the setup menu display when data has been saved.
- Quit setup menu mode. Press the MENU button. The VCR returns to normal mode.
 - If setup menu mode is quitted without saving the setting value changed with the SELECT button, "Abort" is displayed on the counter display for about 3 seconds. To display the previously operated setup menu again, press

the MENU button again while "Abort" is displayed.

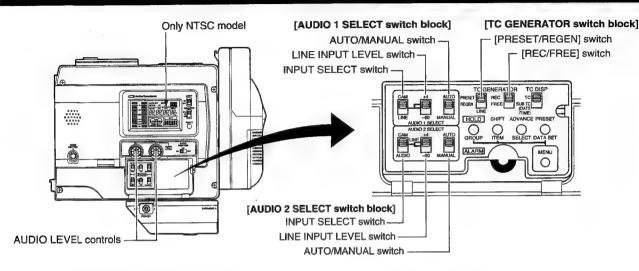
SETUP MENU CONTENTS

Group No.	Setup Menu Name	Counter Display	Contents
1	DRUM HOUR METER	1:dr :02 00+	Shows the accumulated running time of the head drum. (200 hours in this example)
2	TAPE REMAIN	2:En-00:30	Shows the remaining tape time in "hours:mins.". (30 minutes)
3	BATTERY VOLTAGE	3:6E · 12·5u	Battery voltage in V. (12.5 V)
4	TCG SELECT DROP/NON-DROP [Only NTSC model]	4:Ec G :dF t nF	Selects time code generator framing mode between drop frame and non-drop frame mode. dF: Built-in TCG runs in drop frame mode. Use this setting when recording time is important. nF: Built-in TCG runs in non-drop frame mode. Use this setting when frame count is important. Factory setting: nF (Non-drop frame mode)
	U-BIT SLAVE ON/OFF	4:EE Ub:on oF	Selects whether user's bits are also slave-locked when the VCR is slave-locked to an external TCG. on: Slave locked. oF: Not slave locked. Factory setting: oF (Not slave locked)
	BATT.TYPE SELECT	4:6A EE: 12 - 3 4	Set according to the type of battery pack in use. 12: 12 V (Set when using the NB-G1U or a 12 VDC Flat Shape Type battery pack.) 13: 13.2 V (Set when using Anton-Bauer Trimpack 13, Magnum 13 or Compack 13.) 14: 14.4 V (Set when using Anton-Bauer Trimpack 14, Magnum 14 or Compack 14.) Factory setting: 12 (12 V) If this setting is wrong, the remaining battery power display and the battery alarm will not function properly. When powered through the DC input connector, the setting is fixed at 12 V.
	LONG PAUSE TIME SELECT	4:Ln GP:0 1- 05 30	Sets the time before the VCR in record-pause or stop mode enters the tape protect mode (in which the drum stops rotation). 1: 1 minute 5: 5 minutes 30: 30 minutes Factory setting: 30 (30 minutes)
	AUDIO LOW CUT-IN SELECT	4:Lc Ub of - on 0 1 02	Selects if low frequency cutoff is applied to audio input signals. Set to ON to reduce microphone wind noise, etc. oF: Both Audio 1/2 CH OFF. on: Both Audio 1/2 CH ON. 01: Only Audio 1 CH ON. 02: Only Audio 2 CH ON. Factory setting: oF (OFF)

RECORDING

The VCR cannot enter record mode alone. It can enter record mode only when it is connected with a camera.

SWITCH SETTINGS FOR RECORDING



■ Selecting the audio input signals

The AUDIO 1 and AUDIO 2 INPUT SELECT switches can select the input signals independently for the Audio 1 and 2 channels.

AUDIO 1 INPUT SELECT switch

CAM: Receives the audio signal of the camera microphone.

: Receives the audio signal input through the AUDIO 1

input connector.

AUDIO 2 INPUT SELECT switch

AM :: Receives the audio signal of the camera microphone. Use this position when the camera uses a stereo microphone.

 The audio is not input if this position is used with a monaural camera microphone.

LINE : Receives the audio signal input through the AUDIO 2 input connector.

AUDIO 1: Receives the audio signal selected with the AUDIO 1 INPUT SELECT switch also in the Digital Audio 2 channel. Use this position when the camera uses a monaural

 Adjust the LINE INPUT LEVEL switch and AUDIO LEVEL controls for the AUDIO 1 channel. The AUDIO LEVEL controls for the AUDIO 2 channel should be ignored.

Setting the LINE input level

When the LINE input is selected for the Audio 1 or 2 channel, the reference input level can be set according to the audio equipment connected to the AUDIO 1 or AUDIO 2 input connector.

The AUDIO 1 and AUDIO 2 INPUT LEVEL switches can set the reference input levels of respective channels to +4 dB or -60 dB.

Selecting the recording level adjustment methods

The AUTO/MANUAL switches can select the recording level independently for the Audio 1 and 2 channels.

AUTO

: When sounds greater than the reference input level are input, the recording level is held at the reference level. The recording level does not increase when the input level is low.

MANUAL : The recording level of each channel can be adjusted with the AUDIO LEVEL control.

Setting the setup menus

If it is required to cut off low frequencies in the audio input signals (for example, to reduce the wind noise of microphones), set setup menu item "AUDIO LOW CUT-IN SELECT". See page 21 for details.

■ Setting the time code recording function

The VCR records SMPTE(NTSC)/EBU(PAL)-standard time code during recording. Set the switches in the TC GENERATOR block according to applications.

- To record time code as set in the built-in time code generator :
 - Set the PRESET/REGEN switch to PRESET.
 - Set the REC/FREE switch.
 If it is required to record continual time codes across different scenes, set the switch to REC.
 - Set the setup menu. (only NTSC model)
 Open the setup menu item "TCG SELECT DROP/NON-DROP" and set the framing mode of the time code generator to drop frame or non-drop frame mode.
- To record a time code in continuation from the existing time code on tape:
- Set the PRESET/REGEN switch to REGEN.

The time taken to enter record mode from record-pause mode is variable depending on the PRESET/REGEN switch position.

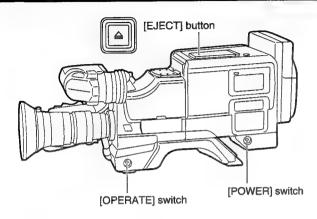
When set to PRESET: Approx. 0.8 second When set to REGEN: Approx. 1.5 second

This switching will cause a shift in the tape position for the REC PAUSE. Therefore, the VCR generate a switching sound.

For details on the time code operations including time code presetting, see "TIME CODE OPERATION" on page 26.

■ The sub-time code is used to record the date and time data. For the setting of the date and time data, see page 30.

RECORDING PROCEDURE

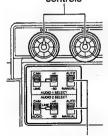


- 1. Set the POWER switch of the VCR to ON.
- 2. Set the OPERATE switch of the camera to VTR SAVE then, in a while, to VTR ST-BY.

Only NTSC model

- The VCR is turned ON so the OPERATE indicator lights in green and the display appears.
- 3. Press the EJECT button to open the cassette cover, insert a cassette tape properly and close the cassette cover gently.
 - Ensure that the REC switch on the back side of the cassette is set to ON.
- → When the cassette cover is closed, the tape is loaded and the VCR enters record-pause mode.
- Use a cassette tape marked DIGITAL S. A S-VHS or VHS cassette cannot be used with this VCR.
- After the cassette cover is closed, it takes about 10 seconds before the VCR is ready for recording.
- See page 25 for the automatic scene change cueing function.
- 4. Adjust the VCR and camera as required for recording before starting it.
 - •VCR: When adjusting the recording level manually:

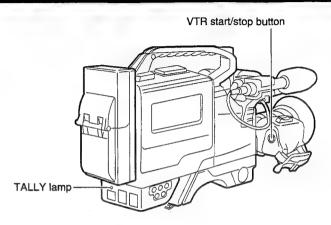
RECORD LEVEL controls



- Set the AUTO/MANUAL switch to MANUAL and adjust the RECORD LEVEL controls so that the level meter peak does not exceed –5dB, even when large sounds are input.
- For the input from the camera microphone or the -60dB LINE input, the limiter circuit activates to hold the recording levels under 0dB, even when the RECORD LEVEL controls are operated.

[AUTO/MANUAL]

Camera: Adjust the white balance, focusing, zooming, etc.
 For details, refer to the instruction manual of the camera.



5. Start recording.

Press the VTR start/stop button of the camera.

→ The VCR starts recording.

When the VTR start/stop button is pressed, the TALLY lamp of the VCR and the REC tally lamp in the viewfinder start blinking. They turn to continuous lighting when the VCR enters record mode.

6. To let recording pause temporarily:

Press the VTR start/stop button of the camera.

→ The TALLY lamp turns off and the VCR enters record-pause mode.

When the VTR start/stop button is pressed, the VCR enters the record-pause mode after rewinding the tape for about 1 to 1.5 second (back-spacing).

During the back-spacing, the last section recorded on

During the back-spacing, the last section recorded on the tape is played in the reverse direction. However, During play in the reverse direction, a block noise is appeared. You can just use it as a reference for confirming whether recording has been made or not.

7. To restart recording: Press the VTR start/stop button of the camera.

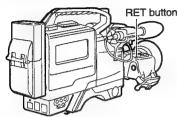
8. End recording.

Recording restarts.

Enter record-pause mode and perform the following operations as required.

- When it is required to unload the cassette tape:
 - Press the EJECT button.
- When it is required to put the VCR in standby OFF mode:
 - Press the OPERATE switch of the camera to VTR SAVE.
- A neat transition to the next recorded scene cannot be guaranteed if you end a recording by setting the OPERATE or POWER switch to OFF. Be sure to enter record-pause mode before switching the camera OFF.
- Before recording a scene which is particularly important, perform test shooting to ensure that normal recording is possible.
- The VCR power consumption can be reduced by setting the LIGHT switch and TALLY switch to OFF.

RET button function



■ Recording check

- When the RET button on the camera lens is pressed while the VCR is in record-pause mode, the tape is rewound and played back for about 2 seconds. Holding the RET button allows the rewinding and playing of the tape for up to 10 seconds. The VCR returns to the record-pause mode after the rewinding and playback.
- If the VTR Start/Stop button is pressed during a recording check, the check is stopped and recording starts immediately.
 As a result, the transition to the next scene in the recorded tape may be disturbed.

■ Backspace for transition recording

This is the facility for the proper execution of a transition recording of a desired section of a recorded tape.

- Press the PLAY button in order to play the tape back.
- While monitoring the viewfinder, press the STOP button at the scene where you want to start a transition recording.
- 3. Press the RET button on the camera lens unit.
- "Backspace" takes place to start recording at the scene where you pressed the STOP button.
- Press the VTR Start/Stop button on the camera unit to begin recording.
 - The RET button function are not available for some cameras.
 Supported by KY-D29 and KY-19 cameras.

For the KY-27 series, the products with serial numbers having the following 4 last digits are supported.

Greater than 1219(for U-ver)/1346(for E-ver) (use the figures only as a guidepost)

Unsupported products can be upgraded on request for a charge. Contact the nearest JVC authorized service agent.

VCR Power-Save

- To put the VCR in power-save mode, set the OPERATE switch of the camera to VTR SAVE.
 - The VCR in record-pause mode enters power standby - OFF mode. The display is turned off in this low power consumption mode.



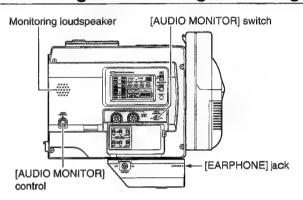
- If you want to record in the Power-Save mode, press the VTR Start/Stop button on the camera, and the VCR power is turned on so that the drum begins to run and starts recording in about 8 seconds. (KY-D29 only)
- To return to record-pause mode from power-save mode, set the OPERATE switch of the camera to VTR ST-BY.

If VCR is Left In Record-Pause Mode

When the VCR has remained in record-pause mode for about 30 minutes, the VCR enters tape protect mode, in which the drum rotation is stopped automatically and the tape tension is released.

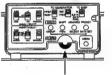
- To start recording from tape protect mode, press the VTR start/ stop button of the camera; the drum starts to rotate and recording starts in about 8 seconds.
- To return to record-pause mode from tape protect mode, press the VTR start/stop button of the camera twice; the drum starts to rotate.
- The time until the VCR enters tape protect mode after it is put to record-pause mode can be set with the setup menu item "LONG PAUSE TIME SELECT" to 1 minute, 5 minutes or 30 minutes.

Monitoring Audio During Recording



The audio input during recording can be monitored through the monitoring loudspeaker or earphone.

- The monitoring audio is not output from the loudspeaker while the EARPHONE jack is in use.
- The AUDIO MONITOR switch selects the audio channels to be monitored.
- The AUDIO MONITOR control adjusts the monitoring volume.
- The loudspeaker or earphone outputs an alarm tone in the case of an abnormal condition occurring with the VCR.

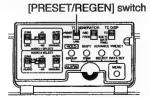


[ALARM] control

An alarm tone is also output when the tape end is reached or when the battery is running down. The alarm tone volume can be adjusted with the ALARM control. For details on the alarm tone, see pages 31 and 32.

• Do not increase the audio monitoring volume too high, otherwise howling with the camera microphone may occur.

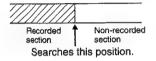
PRESET/REGEN Switch



- Switching the PRESET/REGEN switch in record-pause mode changes the tape position during record-pause according to the switch setting.
- When the PRESET/REGEN switch is switched after having started recording by pressing the VTR start/stop button of the amera, the new setting remains valid in subsequent recording operations.

Automatic scene change cueing

When the VCR is recording something on a virgin tape, the recording is stopped by enterring the record-pause mode and the VCR is switched OFF or the cassette is ejected and then reloaded before the next recording, the automatic scene change cueing function ensures a neat transition to the next recorded scene by automatically searching for the end of the last recording.



The automatic scene change cueing operation is performed for about 10 seconds after the VCR is switched ON again or the cassette is reloaded.

This function takes place on the following occasions:

- When the VCR is switched ON after it has been switched OFF in record-pause mode.
- When the cassette is reloaded after it has been ejected in record-pause mode. *Note that proper operation cannot be guaranteed depending on the type of cassette or the tape position where the recording was ended.

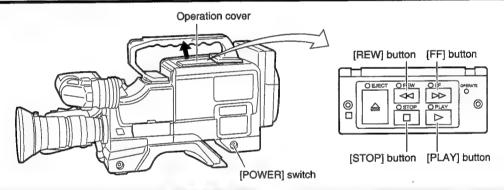
 When the RET button on the camera lens is pressed in stop mode. (See the RET button function on page 24.)

NOTES

- If the VTR Start/Stop button is pressed in the middle of the automatic scene change cueing operation, the VTR start/stop function is given priority so a neat transition to the next scene cannot be guaranteed.
- Be sure to use the VTR Start/Stop button to end every recording (because a pilot signal for ensuring a neat transition to the next scene is recorded when this is done.)
- The proper functioning of the automatic scene change cueing cannot be guaranteed if the recording time before entering the record-pause mode is less than 2 seconds.
- The last recorded position cannot be searched if the tape position has been changed from the position where the VCR entered record-pause mode last.

The search operation occurs only when the current tape position is less than 2 seconds from the position where the record-pause mode was last entered.

PLAYBACK



PLAYBACK PROCEDURE

- Set the POWER switch of the VCR to ON, and open the operation cover to put it in OPERATE ON mode.
- Load a prerecorded cassette tape properly.
- **3.** Press the PLAY button.
 - The PLAY indicator lights up and playback starts.
 - If the VCR is in the record-pause mode, press the STOP button to release the record-pause mode before pressing the PLAY button.
- 4. Press the STOP button to stop recording.
 - The STOP indicator lights up and the VCR enters stop mode.
 - This VCR is not capable of manual tracking adjustment. The tracking is adjusted automatically during playback.
- This VCR is not capable of still image playback.
- A S-VHS or VHS cassette tape cannot be used with this VCR.
- When auto tracking is activated at the start of the play mode, the played video will be interfered with by digital noise. The linear track audio is output in this period.

FAST FORWARD, REWIND

- Press the FF button in stop mode to fast forward tape and press the REW button in stop mode to rewind tape.
- Press the STOP button to stop fast forwarding or rewinding.
- When the tape approaches the end during fast forwarding or rewinding, the tape speed decelerates to protect the tape.

SEARCH

- Press the FF button in play mode to search the tape in the forward direction at about 6 times the normal speed.
 Press the REW button in play mode to search the tape in the reverse direction at about 5 times the normal speed.
- Press the PLAY button to resume normal playback.
- The audio recorded on the linear track of the tape is reproduced during the search.
- Video noise may be observed or the image may become unstable during the search, but this is not a malfunction.

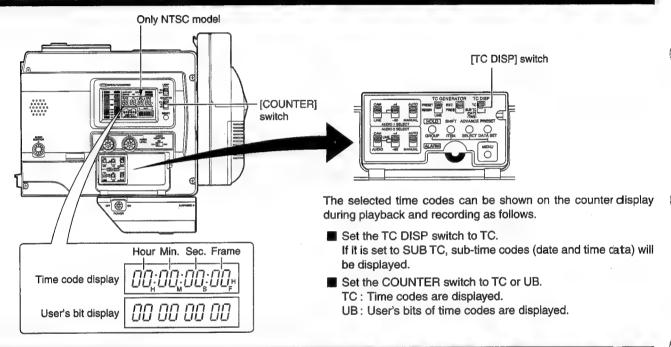
TIME CODE OPERATION

This VCR records 2 time code areas on the tape; the main time code area which contains time codes for use as time data in editing, etc., and the sub-time code area which can optionally contain the date and time data.

- The main time code area contains the recording of SMPTE-standard time codes and user's bits. In play mode, the reproduced time codes or user's bits are shown on the counter display.
- The sub-time code area contains the recording of the date and time data, which can also be shown on the counter display during playback.
 - Neither the main time code nor sub-time code data is output through the VIDEO OUT connector.
 - The generated time-codes are output from the TC OUT connector.

The following description begins with the handling method of the main time code. That of the sub-time code will be described from page 29 and on.

DISPLAYING TIME CODE



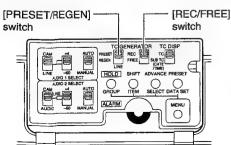
SETTING AND RECORDING TIME CODES

The time code and user's bit data from the built-in time code generator are recorded during recording. The built-in time code generator is operated with one of the following methods.

- Presetting desired data in the time code generator and recording it.
- Slave-locking the built-in time code generator with the data of an external time code generator.
- Reading the time code data from tape and recording continual time codes to it.

Presetting and Recording of Time Code

The time code or user's bit data to be recorded onto tape can be preset to a desired value.



Switch setting

REC

■ Setting the switches in the TC GENERATOR block

- Set the [PRESET/REGEN] switch to PRESET.
- Set the [REC/FREE] switch as follows.

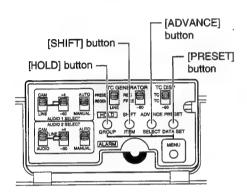
The data preset in the time code generator runs only during relording.

Use this setting to record continual time codes across scenes when recording them one after another.

FREE : The data starts to run from the moment it has been preset in he time code generator.

Drop frame/Non-drop frame modes

With the NTSC format, the actual number of frames per second is about 29.97 frames, while the number of frames assumed for use in time code processing standard is 30 frames. The drop frame mode compensates for this difference by dropping frames 00 and 01 at every minute whose figure cannot be divided by 10. The non-drop frame mode ignores the above difference and does not drop frames.





- Pressing the [RESET] button in preset mode resets the time code or user's bit data to 00 00 00 00.
- If you have pressed the [HOLD] button by mistake, press the [HOLD] button again to return to the previous display.

■ Setup menu setting

Select the framing mode of the time code generator with setup menu item "TCG SELECT DROP/NON-DROP".

- dF: The time code generator runs in drop frame mode. Use this setting when putting importance on the recording time.
- nF: The time code generator runs in non-drop frame mode. Use this setting when putting importance on the number of frames.

The NDF indicator on the LCD display lights in non-drop frame mode.



Time Code Presetting Procedure

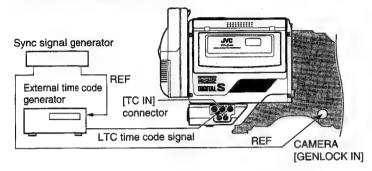
- Display time code on the counter display.
 Set the COUNTER switch to TC.
 - Time code up to 23 hrs. 59 min. 59 sec. 29(NTSC)/24(PAL) frames can be preset.
- 2. Put the time code generator in preset mode. Press the HOLD button.
- The HOLD indicator lights on the display to indicate the preset mode. The first digit of the counter display blinks.
- **3.** Set the value of the blinking digit. Press the ADVANCE button.
 - The value of the blinking digit changes.
- 4. Change the blinking digit. Press the SHIFT button.
 - → The blinking digit changes.
- Set the desired value for all digits.
 Repeat steps 3 and 4 for each digit.
- 6. Preset the set data in the memory. Press the PRESET button.
 - → The set data is saved as the time code generator value.
 After the above operation, the HOLD indicator disappears from the display, the counter stops blinking and the time code is preset.
 - If the REC/FREE switch is set to FREE, the time code starts to run.
 - If you preset a wrong time code, perform steps 3, 4, 5 and 6 again.

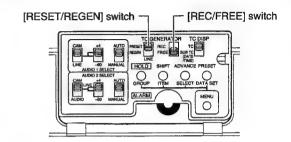
Presetting the user's bit

- Display user's bit on the counter display and perform the same procedure as the time code presetting procedure.
 - The user's bit can be specified using numerals or alphabets from 0 to F for each digit.

Recording Time Codes by Slave-Locking the Built-in Time Code Generator with the External TCG

The built-in time code generator can be synchronized (slave-locked) with the SMPTE(NTSC)/EBU(PAL)-standard LTC time code signal which is input through the TC IN connector. Once the slave locking has been carried out, the built-in time code generator runs even when the external time code input stops. Even when the power is switched off, it continues to run on the backup lithium battery.





- Input the external LTC time code signal in compliance with the SMPTE/EBU standard to the TC IN connector.
- 2. Display time code on the counter display.
- 3. Set the switches in the TC GENERATOR block as follows.
 - Set the PRESET/REGEN switch to PRESET.
 - Set the REC/FREE switch to FREE.

Setup menu setting

Set setup menu item "U-BIT SLAVE ON/OFF" as required.

 Set to ON if you want to also slave lock the user's bits to the external time code generator.

The framing mode is set automatically to the same mode as the input time code (drop frame or non-drop frame mode). The NDF indicator lights on the display if the framing mode is the non-drop frame mode.(Only NTSC model)

- **4.** Set and operate the external time code generator.
- The built-in time code generator is slave-locked with the input external time code data.

The SLAVE indicator lights on the display.

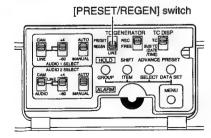


- * If the external time code generator phase is not genlocked with the phase of the camera video signals, the "SLAVE" display will flicker.
- Once slave locking has been made, the built-in time code generator keeps on running even when the external time code generator is stopped.
- While the REC/FREE switch is set to REC, slave-locking will not take place.

Recording Time Codes in Continuance From Time Codes Recorded on Tape

The VCR also incorporates a time code reader. Therefore, when the VCR enters record mode from record-pause mode, it can read the time code data recorded on tape and record continual time codes after it. The recorded user's bit data is identical to the user's bit data recorded on tape.

To make this possible, set the switches in the TC GENERATOR block as follows before starting recording.



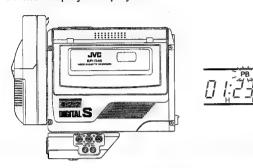
When the PRESET/REGEN switch is set to REGEN, the time taken for entering record mode from record-pause mode becomes slightly longer.

Setting

- Set the counter display to display time codes or user's bits.
- Set the PRESET/REGEN switch to REGEN.
- The time code run mode becomes unrelated to the REC/FREE switch settings.
- The framing mode of the time code generator becomes automatically identical to the mode used by the time codes recorded on the tape (drop frame or non-drop frame mode).
- Only NTSC model

REPRODUCING TIME CODES

The VCR incorporates a time code reader which outputs the time codes and user's bits recorded on the played tape is displayed on the counter display. The played time codes and user's bits are not output from the VIDEO OUT and TC OUT connector.



■ Set the counter display to display time codes or user's bits.

is displayed.

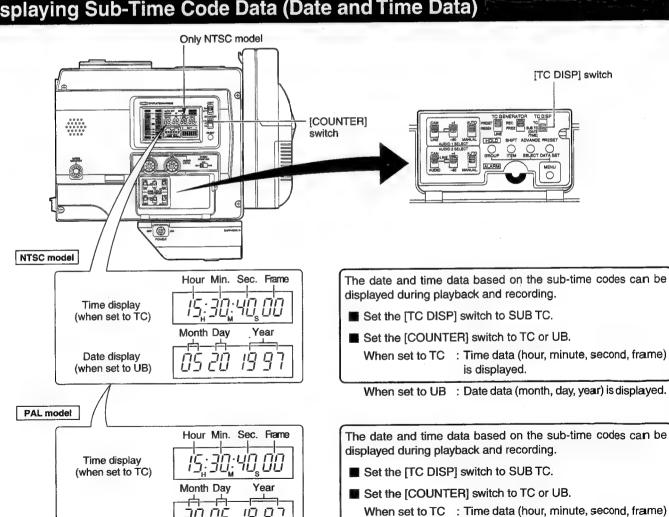
When set to UB: Date data (day, month, year) is displayed.

- Reproduce time codes. Press the PLAY button.
 - The PB indicator lights on the display and the reproduced time code or user's bit is displayed.

SUB-TIME CODE (DATE, TIME)

The VCR records a sub-time code area as an additional time code recording area to the main time code area. The sub-time code area contains data on the date and time of the day.

Displaying Sub-Time Code Data (Date and Time Data)



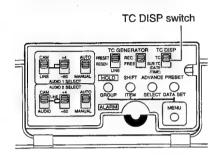
Setting the Date and Time (Sub-Time Code)

The set date and time data is stored in the sub-time code area on tape.

PAL model

Day Month

The set date/time data will continue the counting on the backup lithium battery, even when the power is switched off.



NTSC model
Month Day Year
0 1 0 1 19 9 7
2010
05 20 19:97:
<u> </u>
05 20 19 97
Hour Min. Sec.
THOLDS
÷00:00:00
M-48-F

Setting the date

- 1. Display the date on the counter display.
 - Set the TC DISP switch to SUB TC and the counter switch to UB.
- 2. Press the HOLD button to initiate the setting mode. The HOLD indicator lights on the display, indicating that the VCR is in the setting mode. The the first two digits of the counter display blinks.
- 3. Set the figures of the month(for NTSC)/day(for PAL).
 - Press the ADVANCE button to set the figure of the blinking digit.
- 4. Similarly, set the figures of day(for NTSC)/month(for PAL) and year by pressing the SHIFT button to change the blinking digit and pressing the ADVANCE button to set its figure.
- 5. Press the PRESET button to save the set date in the memory. The HOLD indicator on the display turns off and the date display stops blinking.

Setting the Time of the Day

- $oldsymbol{1}$ Display the time data on the counter display.
 - Set the TC DISP switch to SUB TC and the counter switch to TC.
- Press the HOLD button to initiate the setting mode. The HOLD indicator lights on the display, indicating that the VCR is in the setting mode. The first digit of the counter display blinks.
- 3. Similarly to the date setting operation, set the figures of the hour, minute and second using the SHIFT and ADVANCE buttons.
 - The hour should be set in the 24-hour mode.
 - The frame cannot be set. It will be fixed to 00.
- 4. Press the PRESET button to save the set time in the memory.

 The HOLD indicator on the display turns off and the time starts to count.

Reproducing the Date and Time (Sub-Time Code)

The recorded date and time data is not included in the video signal output from the VIDEO OUT connector or the time code signal output from the TC OUT connector.

The data is displayed only on the counter display of the VCR during playback of the tape.

• When a tape recorded with this VCR is played on a desk-top type DIGITAL S VCR (e.g. JVC BR-D50/D80/D85, etc.), the date or time data is shown on the sub-time code display of the DIGITAL S VCR. The time data is displayed when the COUNTER switch of the DIGITAL S VCR is set to TC, and the date data is displayed if the switch is set to UB.

TROUBLESHOOTING GUIDE

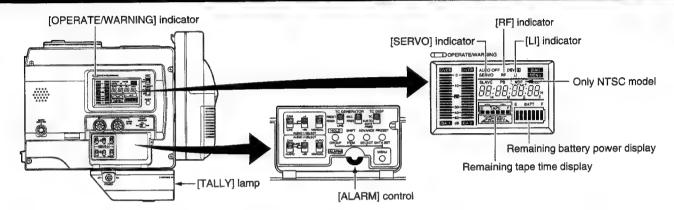
The VCR provides warning on troubles in the operating situations using indicators, LCD displays and monitor tones.

The warning consists of the following two kinds of information.

 Alarm indications : These indications are given to provide warning on the VCR situation, for example when the tape or battery pack should be replaced.

Error code display: In case an error occurs with the VCR operation, the VCR applies self-diagnostics of the cases and shows the
diagnostics results on the counter display. At the same time as displaying an error code display, the VCR stops
operation automatically or ejects the cassette tape.

ALARM INDICATIONS



• The LCD display, OPERATE/WARNING indicator, TALLY lamp and alarm tone act depending on situations as shown in the following table.

Alarm Indications					
LCD Display	OPERATE/ WARNING indicator	TALLY lamp	Alarm Tone	Situation	VCR Behavior, Treatment
SERVO indicato	↔	↔		Lights in case of drum servo trouble during recording. Lights when input video signal is disturbed or VCR is subject to a shock. (Displayed only in record mode)	Operation: Continues. Treatment: • Check input video signal. • Signal is disturbed when VCR is subject to a violent shock. *In other cases, consult your dealer or nearest JVC-authorized service agent.
RF indicator	₩	↔	####	Lights in case of video head clog. (Displayed only during back-spacing for record-pause mode.)	Operation : Continues. Treatment : Clean the head with the special head cleaning tape.
LI indicator				Lights when lithium battery for time code generator and date/ time data backup is exhausted.	Operation : Continues. Treatment : Replace it with a new lithium battery. See page 34.
Remaining tape time	•	•		Approx. 2 min. before tape end. (Displayed only in record or record-pause mode) The TALLY lamp and alarm tone are activated only in the record mode.	Operation : Continues.
E TAPE		♦		When tape has ended completely	Operation : Stops.
Remaining battery power	•	0		When the remaining battery power is low.	Operation: Continues. Treatment: Replace battery packearly.
			cept for earch mode)		
	•	₽		When the battery power drops to an insufficient level.	Operation: Stops automatically and operate turns OFF.

- The OPERATE/WARNING indicator usually lights in green to indicate OPERATE ON mode. In case of alarm, its color turns red and acts as shown in the above table.
- The alarm tone output is superimposed in the audio signal output from the monitoring loudspeaker or EARPHONE jack. The volume of the alarm tone can be adjusted with the ALARM control.

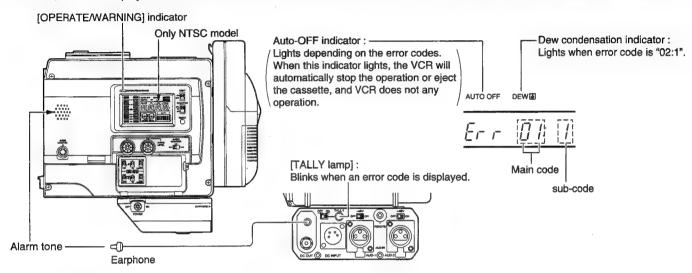
Display symbols • : Steady lighting. • : Blinking once per second. • : Blinking 4 times per second.

: Continuous sound. — : Sound interrupted once per second.

^{*} Refer to "1.5 How to detect the alarm" in Page 1-20 of the service manual.

TROUBLES WITH *ERROR CODE OUTPUTS

In case of trouble during operation of the VCR, it applies self-diagnostics to identify the cause and displays the result in the form of an error code. The error code consists of the "main code" which indicates its contents and the "sub-code" which indicates the details. At this time, the LCD display, the OPERATE/WARNING indicator and alarm tone also act according to the current VCR situation.



OPERATE/WARNING Indicator	Alarm Tone	Display	VCR Operation
Red. blinking	Continuous	"Error code"	Automatically ejects the cassette. It can be inserted again.
		"Error code" plus "AUTO OFF"	Automatically stops operation or eject the cassette. (Auto OFF*). The VCR does not accept any operation.
Red, steady lighting	Intermittent	"02:1" and "DEW ♠ "	Dew is condensed in the VCR. The VCR does not accept operation until indicators disappear from the display.

★In the Auto OFF status, it is impossible to operate the VCR. This condition can be corrected by switching the POWER or OPERATE off and then switching it ON again. If the same trouble occurs again after the power is turned ON, there may be a failure in the VCR. Please consult your dealer or nearest JVC-authorized service agent.

This VCR is microcomputer-controlled equipment, which may malfunction due to external noise or interference. In this case, switch the VCR OFF, remove the lithium backup battery, and switch the VCR ON again after a few seconds.

Error Code	Error Details	VCR Operation	Treatment Switch power ON again.	
01 : 1	Tape sensor LED wire is disconnected	Ejects cassette and does not accept any operation while the error is displayed.		
02:1	Condensation (dewing)	Does not accept any operation while the error is displayed. When condensation disappears, the indicators turn off.	Leave the VCR with the power ON, until "DEW" display disappears.	
32:1 32:2	Tape loading impossible.	Ejects cassette	Insert cassette again.	
33 : 1	Tape unloading impossible.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with the JVC authorized service agent.	

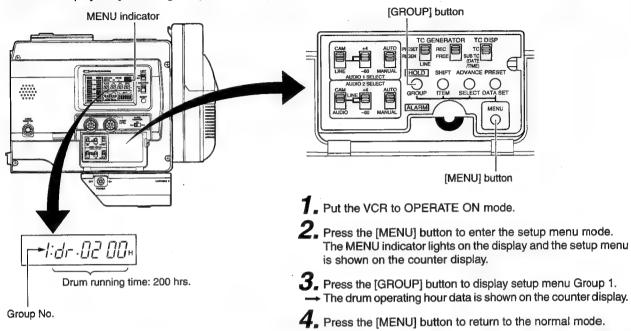
Error Code	Error Details	VCR Operation	Treatment Check cassette and insert again if it is OK.	
56 : 3 to 56 : 8	Tape is cut or tape is slack.	Ejects cassette.		
57 : 1 to 57 : 4	Tape end sensor error.	Rewinds tape to confirm. If tape end is detected again, ejects the cassette.	Check cassette and insert again if it is OK.	
58 : 1 to 58 : 4	Tape beginning sensor error.	Fast forwards tape to confirm. If tape beginning is detected again, ejects the cassette.	Check cassette and insert again if it is OK.	
70 : 1	Drum rotation stopped.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with	
71 : 1	Capstan rotation stopped.	Stops operation. Does not accept any operation.	the JVC authorized service agent.	
72 : 1 to 72 : 5	Supply reel rotation error.	Stops operation. Does not accept any operation.		
72 : 7	Supply reel rotation error due to tightly wound tape.	Ejects cassette.	Check cassette and insert again if it is OK.	
73 : 1 to 73 : 4	Take up reel rotation error.	Stops operation. Does not accept any operation.	Switch the power OFF and then switch it back ON. However, the tape may be damaged depending on the situation. So consult with the JVC authorized service agent.	
73 : 7	Take up reel rotation error due to tightly wound tape.	Ejects cassette.	Check cassette and insert again if it is OK.	

TROUBLES WITHOUT ERROR CODE OUTPUT

Symptons	Check points		
VCR power cannot be switched ON.	 Is power supply connected properly? Is battery pack recharged? Even when the POWER switch is set to ON, VCR power cannot be switched ON if the camera's OPERATE switch is not set to ST-BY or, in case of playback, until the VCR's operation cover is opened. When the lithium battery is depleted, the power should not be turned on. 		
Recording is not possible.	Is REC switch of cassette set it to ON? If it is OFF, set to ON.		
Cassette is ejected.	• Is the cassette in use a DIGITAL S cassette? VHS or S-VHS cassettes are ejected whenever they are inserted.		
Noise interferes with playback video.	Video head may be clogged with dirt. Clean head with the special head cleaning tape.		
Time code or date/ time data are not displayed on the monitor screen.	Time code and date/time data are not displayed on the monitor screen during recording or playback of VCR. The data is shown only on the counter display.		
Time code and user's bit data are not displayed on the counter.	Is TC DISP switch under the side panel cover set to SUB TC? If it is, set the switch to TC.		
Remaining battery power display is incorrect.	• The setup menu item "BATT. TYPE SELECT" may not be set correctly according to the type of battery in use. If the menu item setting is wrong, set it correctly by opening setup menu item "BATT. TYPE SELECT".		
Battery alarm is displayed and VCR enters OPERATE OFF mode even when a fully charged battery is used.			
The operation of the PLAY, REW, or FF button is not accepted.	The unit is not in REC PAUSE mode. Press STOP button to cancel the REC PAUSE, then enter the desired mode.		

HOUR METER DISPLAY

The VCR can display the running time of the drum as the hour meter data on the counter display. The hour meter can be displayed by selecting setup menu Group 1.



HOW TO REPLACE BACKUP LITHIUM BATTERIES

This unit uses a lithium battery to backup the time code and date/ time data.

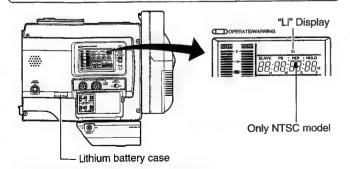
Install the provided lithium battery before actually using the unit.

CAUTION

If the unit is not used for a lengthy period of time, remove the lithium battery. If the voltage of the lithium battery is low, the set may malfunction.

• Lithium battery : CR2032

When the lithium battery is not in place or the battery is running down and requires a replacement, the "Li" in the LCD display will light up.



Replace lithium batteries with the OPERATE switch ON.
 Doing it with the OPERATE switch OFF will cause the loss of backup data.

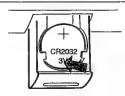
HOW TO INSTALL THE LITHIUM BATTERY

1. 2. 3.

| Gracose | Grac

- 1. Place a flat-blade screwdriver in the groove of the lithium battery case and lower it.
- 2. Slide the battery into place with its + marked surface facing upward.
- 3. Push the lithium battery case back into the unit.

HOW TO REMOVE LITHIUM BATTERIES



If you press the lithium battery at the shown place, it will easily be removed.

SPECIFICATIONS

General

■ Format

: DIGITAL S

■ Tape width

: 12.65 mm

■ Tape speed

: 57.737 mm/sec. (U-ver)

: 57.795 mm/sec. (E-ver) : NTSC (U-ver)

■ Signal format

: PAL (E-ver)

■ Record/play time

: 104 minutes (with a DS-104 cassette)

■ FF/rewind time

: Approx. 4 minutes (with a DS-64)

■ Power supply ■ Power consumption : 12 V DC (11 to 15 V DC) : Max. 28 W (22 W in record mode)

■ Camera power

: 12 V, max. 1.7 A (max. 20 W)

■ Auxiliary power output

: 12 V DC : max. 0.1A (11 to 15 V DC)

■ Dimensions

: 294.5 (W) × 268.5 (H) × 142 (D) mm

■ Weight

: Approx. 4 kg (net weight)

Approx. 5 kg (including NB-G1U battery

pack and tape)

■ Operating temperatures : 0°C to 40°C (32°F to 104°F)

■ Operating humidity

: 30% to 80%RH

■ Storage temperatures

: -20°C to 60°C (-4°F to 140°F)

Video Signal System

■ Video input (50-pin) ■ Composite video output

: Component signal input : 1 Vp-p, 75ohm, unbalanced

■ Sampling frequencies

: Y: 13.5 MHz. R-Y/B-Y: 6.75 MHz.

■ Quantization

: 8-bit

S/N

: More than 52 dB (during BR-D80/D50 reproduction with component output)

■ Resolution

: More than 410 lines

Audio Signal System

■ Number of channels

: PCM × 2, cue track × 2

■ Audio inputs

50-pin connector input

: -20 dBs, 10kohm, balanced : +4 dB, 10kohm, balanced

50-pin line input

: -60 dB, 3kohm, balanced

■ Audio output

: -6 dBs, low impedance, unbalanced

■ Earphone output

: -60 to -17 dBs, at 80hm, load : 48 kHz

■ Sampling frequency Quantization

: 16-bit

■ Frequency response

: 20 Hz to 20 kHz (PCM)

■ Dynamic range

: More than 85 dB (PCM) (during BR-D80/

D50 reproduction)

■ Wow & flutter

: Below measurable limit

Time Code System

■ Time code signal

: Compliance with SMPTE standard(U-ver)

: Compliance with EBU standard(E-ver) : 0 +/-6 dBs, high impedance, unbalanced

■ LTC input ■ LTC output

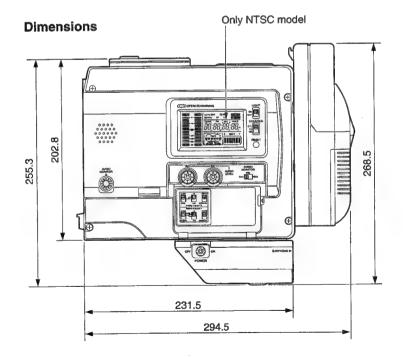
: 0 +/-6 dBs, low impedance, unbalanced

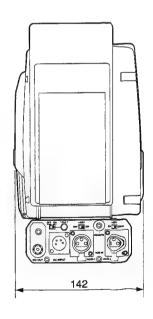
Accessories

■ Carrying handle

 $: \times 1$

■ Lithium battery (CR2032) : ×1

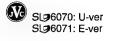




Design and specifications are subject to change without notice.

Unit: mm





SECTION 1 SERVICE CAUTIONS AND DISASSEMBLY

1.1 HOW TO REMOVE THE OUTER CASE

1.1.1 How to remove the cassette cover

(1) Remove two screw covers (A).



Fig. 1.1.1 (1) How to remove screw covers

- (2) Remove two screws 1.
- (3) Slide the cassette cover in the arrow direction in order to remove it.

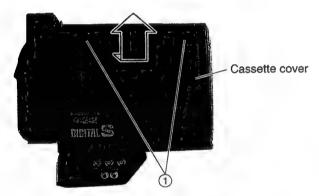


Fig. 1.1.1 (2) How to remove cassette cover

1.1.2 How to remove the left side cover

- (1) Remove the cassette cover. (Refer to the section 1.1.1.)
- (2) Loosen the four screws (2) to remove the left side cover.

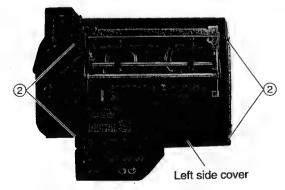


Fig. 1.1.2 (1) How to remove the left side cover

1.1.3 How to open the right side cover

(1) Loosen the four screws 3.

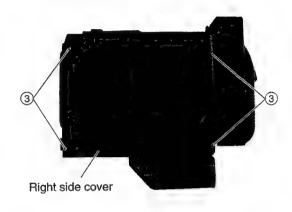


Fig. 1.1.3 (1) How to open right side cover

(2) Open the right side cover towards the front.



Fig. 1.1.3 (2) Diagram with the right side cover is open

1.1.4 How to remove the bottom cover

(1) Remove the four screws (4) and the two screws (5) to remove the bottom cover.

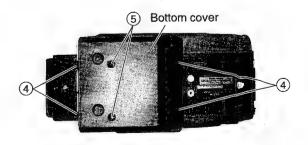


Fig. 1.1.4 (1) How to remove the bottom cover

1.2 HOW TO MAKE A DIAGNOSTICS OF THE MAIN BOARD

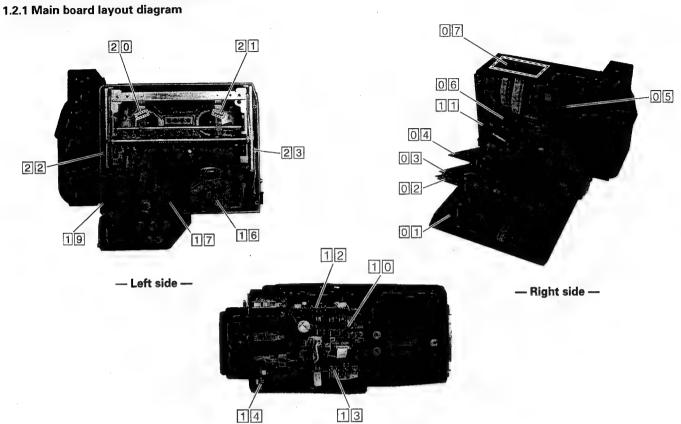


Fig. 1.2.1 Main Board layout diagram

- Bottom side -

Board name	Board layout position	Extension Board	Remarks
01 AUDIO & LCD 02 PV PROCESS 03 I/O SSG	On the right side cover	Not necessary - KLJ0131	Section 1.2.3]- Section 1.1.2
Old RFP Old S/S REG Old PRE/REC Old MECHA. IF Old Toperation	On the side of right side cover	Not necessary Not necessary Not necessary Not necessary Not necessary Not necessary	Section 1.2.4 Section 1.2.5 Section 1.2.6 Section 1.2.7
10 I/O JUNC. 12 CONNECTOR 13 POWER SW 14 DC OUT	Inside connector box	Not necessary Not necessary Not necessary Not necessary	Section 1.2.8
16 DRUM MDA 17 A/C HEAD 18 MODE SENSE 19 AL SENSE 20 TU REEL FG 21 SP REEL FG 22 BEGIN SENSE 23 END SENSE	On the side of the left side cover	Not necessary	

Table 1-2-1

1.2.2 Diagnosis of the I/O SSG and the PV PROCESS boards

- (1) Open the right side cover. (Refer to the section 1.1.3.)
 - → Adjustment of the I/O SSG board is available.

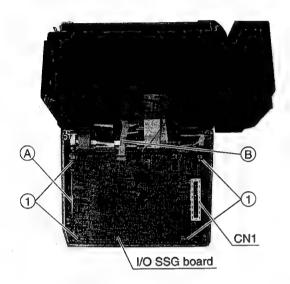


Fig. 1.2.2 (1) Diagnosis of I/O SSG board

- (2) Remove the flat cable CN3 B on I/O SSG board and four screws 1).
- (3) Lift the I/O SSG board up and remove CN1.
- (4) Remove the flat cable (A).
- (5) Remove two screws (2).

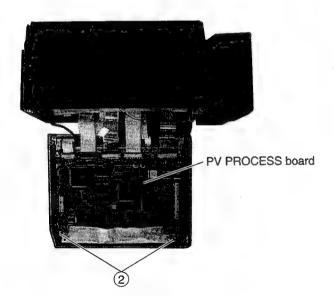
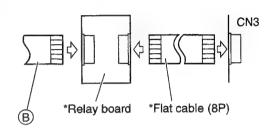


Fig. 1.2.2 (2)

- (6) Connect the extension board kit (KLJ0131) as shown below.
 - → Diagnosis of the I/O SSG and PV PROCESS boards are available.
- ① Connection between the flat cable B and CN3 on the I/O SSG board.



- ② Connection between CN2 on the I/O SSG board and CN1 on the PV PROCESS board.
- → Connect the *flat cable (20P) between them.
- (3) Connection between CN1 on the I/O SSG board and CN9 on the PV PROCESS board.
- → Connect the *extension board between them.
- *: These parts are included in KLJ0131 Extension board kit.

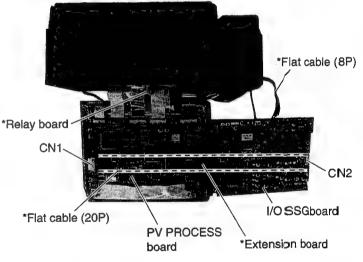
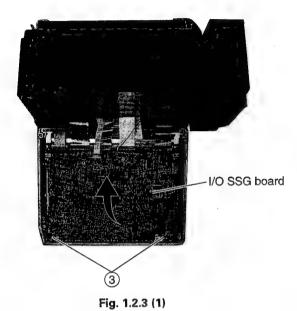


Fig. 1-2-2 (3) Connection of the extension board kit

1.2.3 Diagnostics of an AUDIO & LCD board

- (1) Open the right side cover. (refer to the section 1.1.3)
- (2) Remove two screws (3).



(3) Open the I/O SSG board and the PV PROCESS board at the same time.

- → Adjustment of the AUDIO & LCD board is then possible.
- (4) Remove the six screws (4) and the connectors CN6 and CN401.

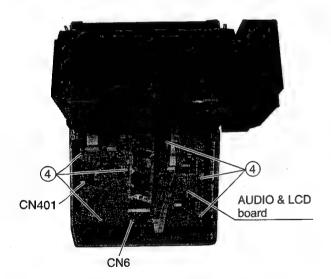


Fig. 1.2.3 (2) Adjustment position of the AUDIO & LCD board

(5) As shown in the Fig. 1.2.3 (3), while the AUDIO & LCD board is standing, the diagnosis is possible.

Caution: During diagnosis, the monitor speaker does not sound. Also, data cannot be backed up by the lithium battery.

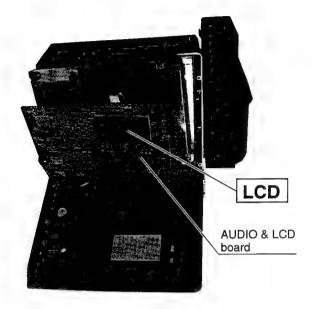


Fig. 1.2.3 (3) Diagnosis of the AUDIO & LCD board

1.2.4 Diagnosis of the RFP and S/S REG boards

- (1) Open the right side cover. (Refer to the section 1.1.3.)
 - → Diagnosis of the RFP board is possible when the shield plate is lifted.

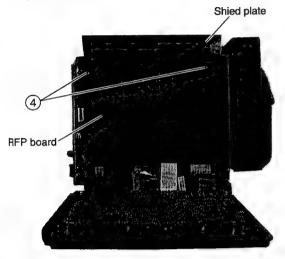


Fig. 1.2.4 (1) Adjustment position of the RFP board

- (2) Remove the two screws 4 and put the RFP board down in front of you.
 - → Diagnosis of the RFP board and adjustment of the S/S REG board are available.

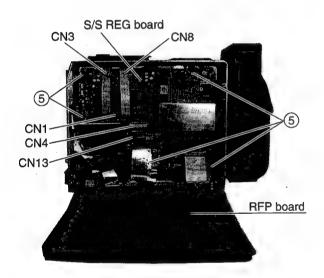


Fig. 1.2.4 (2) Diagnosis of the RFP board

- (3) Remove the flat cables CN4 and CN13 of the S/S REG board.
- (4) Remove the five screws (5).
- (5) Connect the flat cables CN4 and CN13.
 - → As shown in the Fig. 1.2.4 (3), tilt the S/S REG board to perform the diagnosis of the S/S REG board.

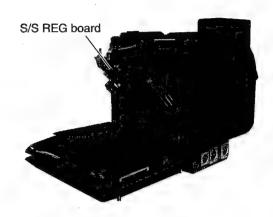


Fig. 1.2.4 (3) Diagnostics of the S/S REG board

1.2.5 Diagnosis of the PRE/REC board

- (1) Open the RFP board and remove the flat cables CN4 and CN13 of the S/S REG board. (Refer to the section 1.2.4 (1) (3).)
- (2) Remove the shield cover of the PRE/REC board.

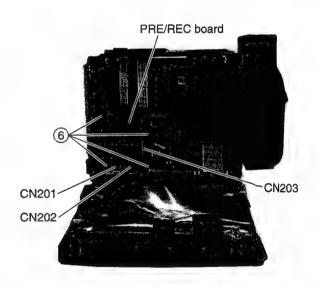


Fig. 1.2.5 (1)

- (3) Remove the four screws (6) and the flat cables CN201 CN203. Then remove the PRE/REC board.
- (4) Remove the six soldered parts of the shield cover in order to remove the shield cover.
- (5) Connect the flat cables CN201 CN203, CN4 and CN13 again.
 - → Diagnosis of the PRE/REC board is possible.

1.2.6 Diagnosis of the back side of the main deck

- (1) Open the RFP board. (Refer to the section 1.2.4 (1) (2).)
- (2) Remove the flat cables CN1, CN3, CN4 and CN8 of S/S REG board. (Refer to Fig. 1-2-4 (2).)
- (3) Remove the five screw (5) and put the S/S REG board down in front of you. (Refer to Fig. 1-2-4(2))
- (4) Remove the PRE/REC board. (Refer to the section 1.2.5 (2) (3).)
 - → The back side of the main deck is revealed.

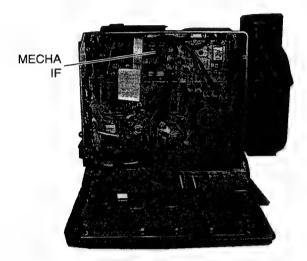


Fig. 1.2.6 Back side of the main deck

1.2.7 Diagnosis of the 50P CONN. board

- (1) Remove the left side cover. (See the section 1.1.2.)
- (2) Remove the screw (7) and then remove the ground lug.

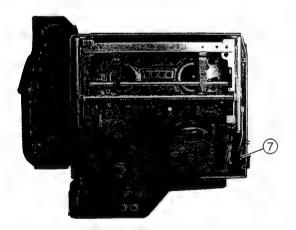


Fig. 1.2.7 (1)

(3) Open the right side cover. (See the section 1.1.3.)

- (4) Remove the PRE/REC board. (See the section 1.2.5 (1) (3).)
- (5) Remove the CN202 and CN203 of the 50P CONN. board.

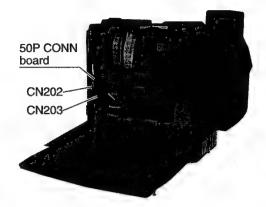


Fig. 1.2.7 (2)

- (6) Remove two sets of screws (8) and (9).
- (7) Remove the hook (A) inside the set, then remove the cover (B)

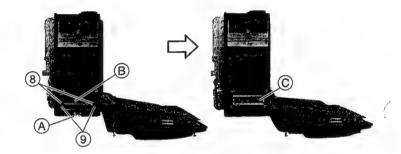


Fig. 1.2.7 (3)

- (8) Slide the 50-pin connector upwards then towards the left to insert the right side of the 50-pin connector inside the set from the hole C.
- (9) Pull the 50-pin connector out from the side of the right side cover.
- (10) Connect the connectors of 50P CONN. board and PRE/REC board.
- ightarrow Diagnostics of the 50P CONN. board is possible.

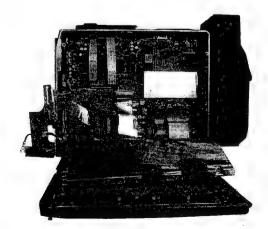


Fig. 1.2.7 (4) Diagnosis of the 50P CONN. board

1.2.8 Diagnosis and how to remove the I/O JUNC board

- (1) Remove the bottom cover. (See the section 1.1.4.)
 - → Diagnosis of the I/O JUNC, CONNECTOR and the POWER SW boards are then possible.

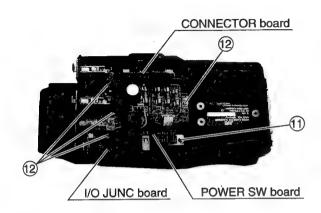


Fig. 1.2.8 (1)

(2) Remove the six screws (10).



Fig. 1.2.8 (2)

- (3) Remove all the connectors on the I/O JUNC board.
- (4) Remove the screw (11) (Fig. 1.2.8 (1)), then remove the POWER SW board.
- (5) Remove the CN101 of the CONNECTOR board.
- (6) Remove the four screws (12) (Fig. 1.2.8 (1)), then remove the I/O JUNC board.

1.3 FUNCTIONS OF SWITCHES INSIDE THE S/S **REG BOARD**

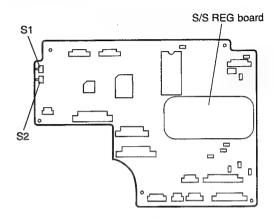


Fig. 1.3.1 Switch layout diagram inside the S/S REG board

• S/S REG board

S1: NTSC/PAL Switch

At factory: U version = NTSC, E version = PAL

NTSC: Operates as an NTSC model.

PAL : Operates as a PAL model. However, if no (625/50) signal is input, the playback of an (525/60) alignment

tape is possible.

Caution: The video adjustment values and the software, etc. are different between NTSC and PAL, therefore, just changing switches is not enough to be suitable for the version.

· S/S REG board

S2: Waring cancellation switch

(At factory: OFF)

This switch has to be OFF except when waring occurrence requires analysis.

: The warning detection circuit works.

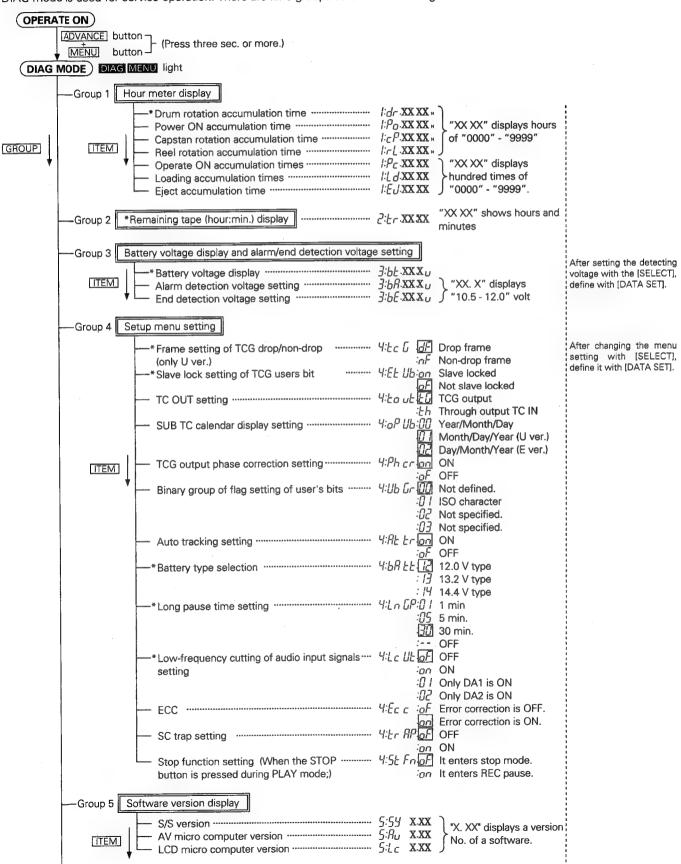
(1) It does not enter the warning mode (excluding alarm display).

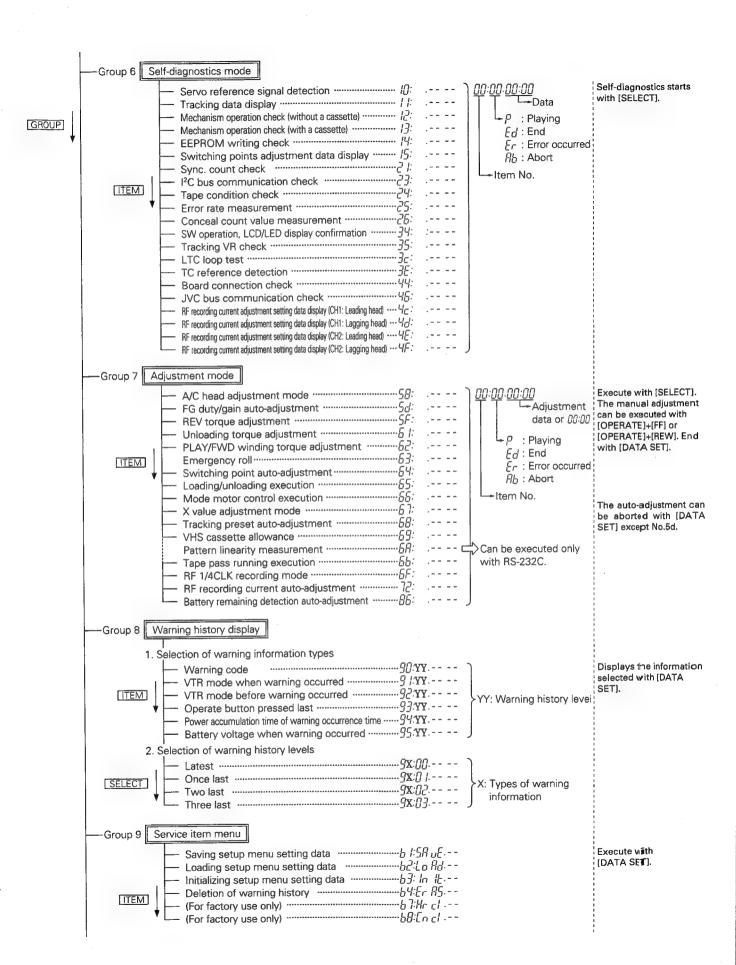
- (2) Mechanism operation is available without an AV micro computer (PV PROCESS board).
- (3) Without connecting a camera, it enters the recording mode when the "PLAY" botton and the operate cover switch are pressed simultaneously.

1.4 DIAG MODE

1.4.1 Structure of DIAG mode

DIAG mode is used for service operation. There are nine groups as shown in the Fig. 1.4.1.



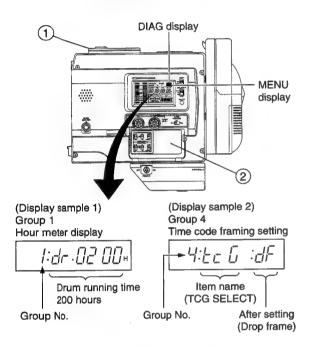


1.4.2 How To Select Items

- (1) Set the [POWER SW] to ON, then open the operation cover (1).
- (2) Initiate DIAG mode.

Open the door 2 at the TIME CODE/SETUP MENU setting section, then hold the [MENU] button for three sec. or more while pressing the [ADVANCE] button.

→ [MENU] and [DIAG] display blink on the display and the DIAG menu appears on the counter display.



(3) Select a group.

Switch the group display of the counter display by pressing the [GROUP] button.

[Group No. display]

Group 1:"1" — Hour meter display and individual reset (7 items, See Fig. 1.4.1.)

Group 2: "2"— Remaining tape (hour:min.) display (1 item. See Fig. 1.4.1.)

Group 3: "3" — Battery voltage display and alarm/end detection voltage setting

(3 items. See Fig. 1.4.4.)

Group 4: "4" — Setup menu setting (13 items. See Fig. 1.4.5.)

Group 5: "5" — Software version display (3 items. See Fig. 1.4.6.)

Group 6: "10" - "4F" — Self-diagnosis mode (21 items. See Fig. 1.4.7.)

Group 7: "58" - "86" — Adjustment mode (17 items. See Fig. 1.4.1.)

Group 8:"9 " — Warning history display (6 items. See Fig. 1.4.9.)

Group 9: "b" — Service item menu (6 items. See fig. 1.4.10)

(4) Select the item in the group.

Pressing the [ITEM] button allows display of the desired item on the counter display.

1.4.3 How to end the DIAG mode

Pressing the [MENU] button ends the DIAG mode.

1.4.4 How to set the battery alarm/end detection voltage setting (Group 3)

Alarm/end detection voltage setting can be set with the voltage values while 12 V battery is used. Which means that the alarm/end is detected at a voltage with 1.1 times the display voltage with a 13.2 V battery and 1.2 times with a 14.4 V battery.

Example) Setting with 10.5 V: 13.2 V type \rightarrow 10.5 x 1.1 =11.6 V 14.4 V type \rightarrow 10.5 x 1.2 = 12.6 V

[How to operate]

- (1) Initiate the DIAG mode and display the following items. (See the section 1.4.2.)
- Alarm detection voltage display

ਤੇ:ਨੂਸ਼:XX.X.u (Factory setting: 11.1 V)

• End detection voltage display

3:5E.XX.Xu (Factory setting: 10.5 V)

- (2) Set the detection voltage by pressing the [SELECT] button.
- → Display data blinks. The display data increase every 0.1 V each time the [SELECT] button is pressed.
- → While the display data is blinking, pressing the [MENU] button allows display of the "Abort" sign for approx. two sec., then the DIAG mode ends without saving the data.

- (3) Press the [DATA SET] button.
- → The setting data is saved in the EEPROM. During saving, the SAVE display appears for one sec.approx.

If the alarm detection voltage is set lower than the end detection voltage, the alarm display occurs when the battery voltage falls to the alarm detection voltage. End display appears in several seconds regardless of the end detection voltage.

1.4.5 How to set the setup menu (Group 4)

With a setup menu setting of DIAG mode, menu settings for both users and services are available.

- Initiate the DIAG mode and select the setup menu item. (See the section 1.4.2.)
- (2) Select the setting values with the [SELECT] button.
- (3) Press the [DATA SET] button.
- → The setting data is saved in the EEPROM. During saving, the SAVE display appears for one sec.approx.

3:-5.Au.E-

Menu names	Counter displays	Details
TCG DROP/NON-DROP (only U version)	4:Ec G :dF :nF	Menu for users (See page 21 of the instruction manual.)
U-BIT SLAVE ON/OFF	4:EE Ubion :oF	Menu for users (See page 21 of the instruction manual.)
TC OUT	4:50 u5:56 :5h	Selection of TC OUT terminal output tG: Time code generator output th: Through output of TC IN terminal input
SUB TC DATE STYLE	4:0P Ub:00 :0 I :02	Selection of the data order of the SUB TC U-BIT (Year/Month/Day calendar) 00: Year/Month/Day 01: Month/Day/Year 02: Day/Month/Year
PHASE CORRECTION	4:Ph crion ioF	Selection whether to execute the phase compensation of TC OUT terminal output on: Execute the phase compensation oF: Not execute the phase compensation
U-BIT BINARY GROUP FLAG	4:Ub Gr:00 :0 I :02 :03	Setting of the binary group flag of the user's bits 00: Not appointed as character sets 01: ISO character 02/03: Not specified
AUTO TRACKING	4:RE Erion ioF	Selection whether to operate the auto tracking during the PLAY mode. on: Operate oF: Not operate. At this time, the tracking VR inside the connector box is effective.
BATT. TYPE	4:6A EE: 12 : 13 : 14	Menu for users (See page 21 of the Instruction manual.)
LONG PAUSE TIME	4:Ln GP:0 1 :05 :30 :	"" (prohibition of long pause) cannot be set at the menu for users (see page 21 of the Instruction manual).
AUDIO LOW CUT-IN	4:Lc UE:on :oF :0 1 :02	Menu for users (See page 21 of the Instruction manual.)
ECC	4:Ec c :on :oF	ON/OFF of the cancellation circuit of the error compensation on: Compensation errors. oF: Non compensation errors.
TRAP	4:Er AP:on :oF	ON/OFF of SC trap circuit of the video output system on: Operate trap circuit. oF: Not operate trap circuit.
STOP FUNCTION	4:5E Fn:on :oF	Operation when the STOP button is pressed during the PLAY mode. on: REC PAUSE initiates after rewinding the amount of back space. oF: STOP mode initiates.

Table 1.4.5 (1) Setup menu

1.4.6 Software version display (Group 5)

These items allow confirmation of software versions in use without removing the outer case of the set. The details of the displays are shown below.

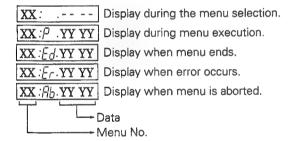
Menu names	Counter display	Board names Symbol No.	Remarks
SYSCON/SERVO version	5:59 <u>x</u> . <u>xx</u>	S/S REG board IC9	PLSL1019-V <u>X</u> - <u>XX</u>
AV micro computer version	5:Ru 1: <u>XX</u>	PV PROCESS board IC18	UPD78P58YGC-2 <u>XX</u> (U ver.) UPD78P58YGC-4 <u>XX</u> (E ver.)
LCD micro computer version	51c 1 <u>xx</u>	AUDIO & LCD board IC401	UPD78P054GC-4 <u>XX</u> (U ver.) UPD78P054GC-5 <u>XX</u> (E ver.)

Table 1.4.6 (1) Software version display

1.4.7 Self-diagnosis mode (Group 6)

Twenty-one menus are provided in the self-diagnosis mode to check the internal operation of the set. Pressing the [SELECT] button after selecting a menu allows starting of the self-diagnosis.

At this time, the following displays appear on the counter display.



(1) Detection of servo reference signal

This menu allows checks if the servo reference signal is being supplied normally to the S/S micro computer.

[How to operate]

During the above a menu is displayed, the result of the diagnosis is displayed when the [SELECT] button is pressed.

If an error display appears, check if the TSR signals (75 Hz) generated from DCI-P (PV PROCESS board IC8-pin120) is supplied to the S/S micro computer (S/S REG board IC14-pin67).

(2) Tracking data display



This menu allows display of the present tracking phase data.

[How to operate]

During the above a menu is displayed, the tracking data (hexadecimal number) is displayed when the [SELECT] button is pressed.

Display sample //:Ed.05:bF

In case the tracking data during the alignment tape MSHP-X playback is out of the area either the "6097" H - "61C1" or the "0000" H - "0EA8" H, X values may be misadjusted.

(3) Mechanism operation check (without a cassette)

12: .----

This menu is used for checking the mechanism operation.

[How to operate]

With the above display, pressing the [SELECT] button allows the starting of the mechanism automatically without inserting a cassette tape to check if there is any abnormality in the mechanism. The result of the diagnoses is displayed as follows.

In the data area of the error display, the data "X", "Y" and "Z" (hexadecimal number) which indicate abnormal points are displayed. Correspond them to the table below in order to detect any abnormal occurrence points. In the tables, the mark "O" is provided for the points where an abnormality occurs. For example, if "12: ER. 00 40" is displayed, it means that data "Y" is "4", so that you can tell that the abnormality of "Capstan motor does not rotate" has occurred by Table 1.4.7 (2).

Display "X"	0	1	2	3
Unloading failed.			0	0
Loading failed.		0		0

Table 1.4.7 (1) Mechanism operation abnormality display "X"

Display "Y"	0	1	2	3	4	5	6	7
Capstan motor does not rotate.					0	0	0	0
Drum motor does not rotate.			0	0			0	0
Reel brake does not work.		0		0		0		0

Table 1.4.7 (2) Mechanism operation abnormality display "Y"

Display "Z"	0	1	2	3	4	5	6	7	8	9	Α	b	С	d	Ε	F
TU reel does not rotate.									0	0	0	0	0	0	0	0
SUP reel does not rotate.					0	0	0	0					0	0	0	0
Condensation has occurred.			0	0			0	0			0	0			0	0
Tape LED abnormality		0		0		0		0		0		0		0		0

Table 1.4.7 (3) Mechanism operation abnormality display "Z"

(4) Mechanism operation check (with a cassette)

This mode is used for checking a mechanism operation.

[How to operate]

During the above displays, inserting a cassette tape allows the start of the mechanism automatically in order to diagnose if there is any abnormality.

• Normal / 3:Ed:00:00
• Abnormal / 3:Er:00 XY

In the data area of the error display, the data "X" and "Y" (hexadecimal numbers) which indicate abnormal points are displayed. Correspond them to the table below to detect any abnormal occurrence points. In the table below, the mark "O" is provided for the points where an abnormality occurs.

Display "X"	0	1	2	3	8	9	Α	b
Unloading failed.					0	0	0	0
Loading failed.			0	0			0	0
TU reel abnormality		0		0		0		0

Table 1.4.7 (4) Mechanism operation abnormality display "X"

Display "Y"	0	2	4	6	8	Α	С	Ε
SUP reel abnormality					0	0	0	0
End sensor abnormality			0	0			0	0
Begin sensor abnormality		0		0		0		0

Table 1.4.7 (5) Mechanism operation abnormality display "Y"

(5) EEPROM writing check

14: .----

This menu allows checks if the data has been written to EEPROM (S/S REG board IC34) correctly or not.

[How to operate]

During the above display, pressing the [SELECT] button allows a start of the diagnosis and displays the results as follows.

(6) Switching points check

15: .----

This menu allows us to measure the switching points during playback.

[How to operate]

After pressing the [SELECT] button during the above display, insert a cassette tape in order to initiate the PLAY mode. An S/S micro computer starts measuring the switching points and displays the results of the measured data (hexadecimal numbers) as follows.

The measured data "YY" should be in the area between "0C" H - "F4" H. If it is out of this area or an error display appears, check the switching point auto-adjustment (Menu No. 64) and also if an HID signal (position information of a rotation head) and SPA signal (recording position information of ITI signal on the tape pattern, S/S REG board IC14-pin56) are correctly supplied to S/S micro computer.

(7) Sync. count check

21: .----

This menu allows us to check if the DCI-P (PV PROCESS board IC8) can read the playback signal data correctly or not.

[How to operate]

After pressing the [SELECT] button during the above display, insert a cassette tape in order to initiate the PLAY mode. The DCI-P starts checking the sync. data playback signals for each head and displays the result as follows.

In case the data cannot be detected correctly, an error display as above appears.

Correspond the display data "Y" to the table below in order to find out which head's output has an abnormality.

Display "Y"	0	1	2	3	4	5	6	7	8	9	Α	b	С	d	E	F
CH2 Primary head									0	0	0	0	0	0	0	0
CH2 Trailing head					0	0	0	0					0	0	0	0
CH1 Primary head	l		0	0			0	0			0	0			0	0
CH1 Trailing head		0		0		0		0		0		0		0		0

Table 1.4.7 (6) Sync. count error data

In case the error display appears, there may be some dust on the rotation head or its service life is coming to an end, also the RF equalizer (RF PROCESS board IC301, IC401) may be misadjusted or DCI-P (PV PROCESS board IC8) may be damaged.

(8) I2C bus communication check

23: .---

This menu allows us to diagnose if the AV micro computer (PV PROCESS board IC18) communicates correctly with each of the digital process ICs on the PV PROCESS board.

[How to operate]

During the above display, pressing the [SELECT] button allow us to start diagnosis and display results as follows.

If any communication error occurs, data "X", "Y" and "Z" which indicate the abnormality points are displayed on the above error display. Correspond them to the table below in order to find out in which IC the communication abnormality has occurred.

Display "X"	0	1	2	3	4	5	6	7	8	9	Α	b	С	d	Ε	F
AUDIO-2(IC352)									0	0	0	0	0	0	0	0
AUDIO-1 (IC351)					0	0	0	0					0	0	0	0
SHUFF (IC9)			0	0			0	0			0	0			0	0
ECC-2 (IC43)		0		0		0		0		0		0		0		0

Table 1.4.7 (7) I²C bus communication error data "X"

Display "Y"	0	4	8	С
ECC-1 (IC41)			0	0
DCI-P (IC8)		0		

Table 1.4.7 (8) I²C bus communication error data "Y"

Display "Z"	0	1
DCI-R (IC7)		0

Table 1.4.7 (9) I²C bus communication error data "Z"

(9) Tape condition check

24: .---

This menu judges the tape playback condition from the numbers of errors detected by DCI-P (PV PROCESS board IC8) during playback and displays the results classified by four different levels.

[How to operate]

During the above display, press the [SELECT] button, then insert a cassette tape to initiate the PLAY mode to display the tape conditions as follows.

24:Ed.00 00Hardly any errors24:Ed.00 01Some errors24:Ed.00 02Many errors24:Ed.00 04Normal playback is not possible.

If error rate level "4" is displayed, there may be some dust on the rotation head or its service life is coming to an end, The RF equalizer (RFP board IC301, IC401) may be misadjusted or the DCI-P (PV PROCESS board IC8) may be damaged.

(10) Error rate measurement



This menu displays how many inner errors have occurred at the sync. block during two frames.

[How to operate]

Press the [SELECT] button, then insert a cassette tape to initiate the PLAY mode in order to display the error rate (hexadecimal numbers) as follows.

(11) Concealed count

This menu displays the numbers of error corrections of the video data carried out by the ECC (PV PROCESS board IC41, IC43) per frame.

[How to operate]

Press the [SELECT] button, then insert a cassette tape in order to initiate the PLAY mode. The AV micro computer starts measuring the concealed count values in order to display the result as follows.

(12) SW operation, LCD/LED display confirmation

This menu is used for checking if the OPERATE SW and LED/LCD displays are operating correctly.

[How to operate]

Press the [SELECT] button to initiate this menu. The operation check is available with the following procedures.

- While the FF, REW, STOP, PLAY or EJECT button is pressed, the corresponding LED lights.
- While the [PRESET] button is pressed, all the segments of LCD light.
- While the [RESET] button is pressed, all the segments of the LCD turn off.
- The switch operation can be checked with a display on the COUNTER DISPLAY.

A: [COUNTER] switch setting

2: "UB" side, 1: "TC" side, 0: "CTL" side

B: [TC GENERATOR] switch setting

1: "PRESET" side, 0: "REGEN" side

C: [TC GENERATOR] switch setting

1: "REC" side, 0: "FREE" side

D: [TC DISP] switch setting

1: "TC" side, 0: "SUB TC" side

(13) Tracking VR test



This menu is used for an operational check of the tracking VR inside a connector box.

[How to perform the operation]

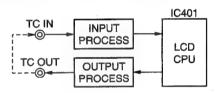
Set the auto tracking setting "4: At tr" of the setup menu to "oF", then select the tracking VR test "35: .-- --". In this condition, pressing the [SELECT] button allows to display

When the tracking VR is turned on, if the display data varies beyond the area between "40" - "C0", the tracking VR is normal.

(14) LTC loop test



This menu diagnoses the input/output circuit of the LTC by checking if the LTC reader (AUDIO&LCD board IC401) correctly reads the test signals generated from the LTC generator (AUDIO&LCD board IC401).



[How to operate]

During the above display, press the [SELECT] button, then carry out the loop connection between the TC IN terminal and the TC OUT terminal.

The results of the diagnostics are displayed as follows.

During execution ∃c:P .□□□□ (if the loop connection is now provided, the display will not be changed.)
 Normal ∃c:Ed:□□□□

Abnormal

3c:Er:00:00

(15) TC reference signal detection



This menu allows to check if any FRP signals (AUDIO&LCD board IC401 - pin64) which are standard for the running of the time code data, are being supplied to the TC generator.

[How to operate]

During the above display, pressing the [SELECT] button allows to start diagnostics and displays the results as follows.

• Normal 3E:Ed:00 00

(16) Board connection check

44: .----

This menu allows us to check if the FFC cable provided between the S/S REG board and each board are connected properly.

[How to operate]

During the above display, pressing the [SELECT] button allows us to start the diagnosis and displays the results as follows.

• Normal 44:Ed-00 00
• Abnormal 44:Er- XY Z0

In case there is a malfunction in the FFC cable connections, the data "X", "Y" and "Z" (hexadecimal numbers) indicates abnormal points with the above error display. Correspond them to the table below in order to find out in which board connected to the S/S REG board has the FFC cable connection malfunction occurred.

Display "X"	0	1
OPERATION board CN1		0

Table 1.4.7 (10) Board connection check error data "X"

			_	
Display "Y"	0	2	8	Α
MECHA I/F board CN1			0	0
RFP board CN604		0		0

Table 1.4.7 (11) Board connection check error data "Y"

Display "Z"	0	2	8	Α
AUDIO&LCD board CN8			0	0
PV PROCESS board CN10		0		0

Table 1.4.7 (12) Board connection check error data "Z"

(17) JVC bus communication check

46: ----

This menu allows to diagnose if the S/S micro computer (master CPU) and each slave CPU (AV micro computer, LCD micro computer) are communicating correctly.

[How to operate]

During the above display, pressing the [SELECT] button allows to start the diagnosis and displays the results as follows.

- Normal 46:84:00:00
- Abnormal (X:3 = AV micro computer, 5 = LCD micro computer)

When any communication error occurs, it locates which of the communications with the CPU caused the error and displays the information on the above error display.

(18) RF record current adjustment data display

4c:	CH1 Leading head
4d:	CH1 Lagging head
4E:	CH2 Leading head
ЧF:	CH2 Lagging head

This menu is used for confirming the adjustment values set by a recording current auto adjustment.

[Operation]

During the above display, pressing the [SELECT] button allows us to display the adjustment values for each head with hexadecimal numbers.

4c:Ed:00 Y Y	CH1 Leading head adjustment data
4d:Ed:00 YY	CH1 Lagging head adjustment data
4E:Ed:00 YY	CH2 Leading head adjustment data
4F:Ed:00 YY	CH2 Lagging head adjustment data

1.4.8 Adjustment mode (Group 7)

There are two menus which are provided for the adjustment mode; an auto adjustment menu to carry out the adjustment automatically and a setting menu to initiate the adjustment mode. How to execute each menu is explained in the corresponding adjustment item or the table below.

Menu names	Display	VTR operation	Remarks
Search audio x1 płayback	(while menu is selected)	Search audio is output during the PLAY mode. It accepts a VHS cassette, then the tape is run with the VHS SP mode speed. However, the picture and the HiFi audio cannot be played back.	2.10.3 A/C head azimuth adjustment 2.10.4 A/C head height adjustment
Capstan FG duty/gain auto adjustment [5,5]: (while menu is selected)		Adjust the duty ratio of the capstan FG to 50%. Carry out the gain adjustment of the capstan FG. (stop servo adjustment) No operation can be executed during the auto adjustment.	3.5.1 Capstan motor automatic adjust- ment

Table 1.4.8 (1) Adjustment modes-1/3

Menu names	Display	VTR operation	Remarks
Reverse torque adjustment	5F: (while menu is selected)	It accepts a torque cassette for the VHS. Winding torque adjustment during the running of the REV is available. While the menu is being executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is then fixed to -1X speed.	2.9.2 Reverse torque adjustment
Unloading the torque adjustment	[]: (while menu is selected)	It accepts a torque cassette for the VHS. During the search REV mode, the supply reel is rotated with a winding torque while unloading. While the menu is executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is fixed to -1X speed.	2.9.1 Unloading torque adjustment
PLAY torque adjustment	(while menu is selected)	It accepts a torque cassette for VHS. A winding torque adjustment of the take- up reel during the FWD is available. While the menu is executed, the tape is always run by a capstan motor drive even if the FF/REW button is pressed. The tape speed of the search REV mode is fixed to normal speed.	2.9.3 PLAY torque adjust- ment
Emergency roll mode	[3]: (while menu is selected)	In case abnormal tape slack occurs, it drive the reel motor with low torque to wind up the slacked tape.	Refer to the section 1.10 How To Eject The Tape In Emergency.
Switching point auto adjustment	[4: (while menu is selected)	The switching point adjustment is carried out automatically.	3.5.3 Playback switching point adjustment
Manually loading/unloading	(while menu is selected) 55:P	The loading and unloading can be carried out without inserting a cassette. If a cassette is already inserted, it eject the cassette, then starts this menu.	[How to operate] Select the menu with the [SELECT] button, then press the button below while pressing the [OPERATE] button. [FF]: Loading [REW]: Unloading
Manual loading motor control	(while menu is selected) [6]: P. [6] [6] (during playing) [6]: Ed. [6] (end)	The loading motor can be rotated manually without inserting a cassette. If a cassette is already inserted, it eject the cassette, then start this menu.	[How to operate] Select the menu with the [SELECT] button, then press the button below while pressing the [OPERATE] button. [FF]: Rotates for 34 ms towards the loading direction [REW]: Rotates for 34 ms towards the unloading direction

Table 1.4.8 (1) Adjustment modes-2/3

Menu names	Display	VTR operation	Remarks
X value adjustment	には、	Auto tracking becomes OFF. Tracking the VR becomes invalid and playback starts at the tracking preset position.	2.10.5 X value adjustment
Tracking Preset auto adjustment	CB: (while menu is selected)	The tracking is varied and the tracking position where an RF level becomes maximum, is searched automatically.	3.5.2 Tracking preset adjustment
VHS cassette acceptance	(while menu is selected)	It accepts a VHS cassette.	[How to operate] [SELECT]: Play [DATA SET] : End
Linearity measurement	(while menu is selected)	Linearity measurement mode is initiated with the RS-232C control. Auto tracking becomes OFF and the tracking VR becomes invalid.	2.12 CHECK OF LINEARITY
Tape pass running	(while menu is selected) (while menu is selected) (b:P . [] [] Y (while running is executed) (b:Ed.[] [] F (when the 15 passes are completed) (Error display)	When a cassette is inserted, it repeats PLAY mode (8 times) and SRH REV mode (7 times) on the same section of the tape (approx. 30 sec.), then eject the tape. While the running is being executed, the number of the executed running is displayed at "Y" with hexadecimal numbers. While the running is being executed, if the [DATA SET] button is pressed or the VTR mode is changed, or a tape end is detected during PLAY, an error message is displayed.	[How to operate] Select the menu by pressing the [SELECT] button, then insert a cassette on which a recording has been done.
RF REC1/4 CLK	(while menu is selected) [F:P .] [] [] [] (during recording) [F:Ed.] [] [] []	Recording 1/4-divided clock (approx. 12.4MHz)	[How to operate] Select the menu by pressing the [SELECT] button, then record the internal clock.
RF recording current auto adjustment	(while menu is selected)	It varies the recording current value with 16 steps at every 4 sec. and records the internal oscillation clock (approx. 12.4 MHz). This process is repeated four times. (It takes a little more than four minutes.) Then, it plays back the recorded section automatically and detects the best recording current value out of the output levels for each head.	adjustment
Battery voltage detection auto adjustment	(while menu is selected)	S/S micro computer (S/S REG board IC14) measures the voltage at pin 68 and writes the difference between that value and the optimum value as the compensation value of the battery detection circuit on the EEPROM.	3.4.3 Remaining battery defection circuit adjustment

Table 1.4.8 (1) Adjustment modes-3/3

1.4.9 Warning history display

In the menu of this group, the following data regarding the last four warnings occurring can be displayed.

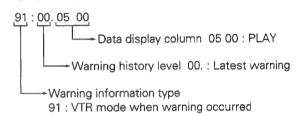
Display at the selected menu	Type of warning information
90:YY	Warning code (Refer to the section 1.6)
9 /:YY	VTR mode when the warning occurred. (Refer to the table 1.4.9 (2).)
90:YY	VTR mode before the warning occurred. (Refer to the table 1.4.9 (2).)
93: Y Y	The last operate button to be pressed when the warning occurred. (Refer to the table 1.4.9.(3).)
94: Y Y	Power ON accumulated time [unit: hour] when the warning occurred.
95:YY	The battery voltage [unit: V] when the warning occurred.

Table 1.4.9 (1) Types of warning information

[How to operate]

- (1) Initiate the DIAG mode and select the group 8. (Refer to the section 1.4.2.)
- (2) Select the type of warning information with the [ITEM] button
- (3) Select the warning history level with the [SELECT] button.
- (4) Pressing the [DATA SET] button allows us to display data regarding the selected information.

[Display example]



Data	VTR mode	Data	VTR mode	Data	VTR mode
03 00	SEARCH FWD	04 00	STOP	80 0 1	REC BACK SPACE
04 00	SEARCH REV	13.00	SKIP FWD	80 02	REC PAUSE
05 00	PLAY	14 00	SKIP REV	<i>80 0</i> 4	REC PLAY
0700	NO CASSETTE (EJECT)	19 00	FF	80 10	REC
09 00	EJECT	IR 00	REW	8101	ASSM BACK SPACE
0A 00	NO CASSETTE (INTAKE END)	<i>15 00</i>	SHORT FF	8104	ASSM PLAY
0c 00	STAND-BY OFF	1c 00	SHORT REW	92 02	REC LOCK

Table 1.4.9 (2) VTR mode data

Data	Operate button	Data	Operate button	Data	Operate button
30 00	EJECT	33 00	REW	42 OO	REC+PAUSE
3 1 00	STOP	40 00	PLAY	45 00	STANDBY
32 00	FF	4100	REC+PLAY	45 00	REVIEW

Table 1.4.9 (3) Operate button data

1.4.10 Service item menu (Group 9)

In the menus of this group, the following menus are to carry out the data processing for the setup menu and the hour meter.

Menu selection displays	Functions
6 I:5A uE	Save the setting data for the setup menu.
62:La Rd	Set the setup menu to the setting saved at "b I:58 uE".
63: In 16:	Set the setup menu to the factory set.
64:Er RS	Delete the warning history data.
67:Hr LL	(For factory use only)
b8:[n .L	(For factory use only)

Table 1.4.10 (1) Service items menu

[How to operation]

- (1) Initiate the DIAG mode and select group 9. (Refer to the section 1.4.2.)
- (2) Select the [ITEM] button on the menu.
- (3) Pressing the [DATA SET] button allows execution. While the data is being written in the EEPROM, the "on" message is displayed for approx. one sec.

[Display example]

61:5A.uE.an

1.5 HOW TO DETECT THE ALARM

The BR-D40 provides alarm display functions in order to inform users of the remaining condition of the tape and battery. This section explains how to detect them. Please refer to page 31 in the INSTRUCTIONS regarding the alarm display details.

Items	Conditions	Detecting methods
Servo lock error "SERVO"	At the IN point of the continuous recording, this occurs if a drum rotation phase error happens for more than 450 micro s or if the capstan motor rotation speed varies more than 6%.	S/S micro computer (S/S REG board IC14) detects the drum rotation phase from the phase difference between the TSR signal and the ID signal, and the capstan motor speed from the frequency of the CAP x 2FG signal.
Head clog "RF"	This occurs when the RF signal is lacking for one second during the back space operation. (However, it also enters the alarm mode if the signal is lacking for 0.5 second just before ending the back space operation.)	It judges that the RF signal is lacking when the RF level detection circuit output (S/S REG board IC32 - pin17) becomes lower than 0.27 V.
Lithium battery fault "Li"	This occurs when a lithium battery is exhausted or is not installed.	When the input voltage (AUDIO&LCD board IC 418 -pin4) of the battery backup switching circuit becomes lower than 2.7 V, the signal at the PREEND terminal (pin2) is at a low level. This results in the Alarm mode being entered.
Tape remaining time	This occurs when the remaining tape is less than 2 min. during recording or the recording pause function, or when the tape end is detected during recording.	S/S micro computer (S/S REG board IC14) detects the tape remaining time from the diameter of the supply reel and the tape end from the end sensor output.
Battery remaining time	This occurs when the battery capacity is insufficient.	The S/S micro computer (S/S REG board IC14) detects the battery voltage from the voltage at pin68. When 12 V battery is used: Approx. 1.19 V When 13 V battery is used: Approx. 1.84 V When 14 V battery is used: Approx. 2.43 V (Alarm detection voltage setting: at 11.1 V)

Table 1.5 (1) How to detect the alarms

1.6 ERROR CODES

The BR-D40 diagnoses the causes of malfunctions and displays the error codes. The procedures of each error detection are explained below.

 Dew condensation indicator: Lights when error code is "02:1".

Auto-OFF indicator: Lights depending on the error codes. When this indicator lights, the VCR will automatically stop the operation or eject the cassette, and VCR does not any operation.



01: 1 Disconnection or short circuit of LEDs for leader tape detection

• VTR operation: This ejects a cassette.

If a cassette is not inserted, one cannot be accepted until the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Causes:

Disconnection of the tape LED

• How to detect: When the IC14 - pin75 (normally approx. 1.1 V) becomes 250 ms or more and 3 V or more or 0.5 V or less.

02:1 Condensation

• VTR operation: It enters the AUTO OFF mode. When a cassette is not inserted, the drum motor starts rotation. When the condensation is cleared, the warning is released automatically and normal operation will start.

• [AUTO OFF] display in the LCD: Lit.

Condensation or a malfunction of the DEW Causes: sensor

 How to detect: When the DEW sensor output (IC14 - pin73) becomes 3 V or more, it enters the warning mode. When it becomes 2 V or less, the warning is released.

32:1 The loading cannot be completed

• VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Malfunction of a mode sensor, a loading · Causes:

motor, an MDA circuit (IC21) or a loading mechanism.

An inferior of a cassette tape.

• How to detect: The loading cannot be completed within eight seconds when it checks the mode sensor output (IC6 - pin19, 20, 21).

32:2 Tape slack during loading

• VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Causes: Malfunction of a loading mechanism (Stack of a guide roller)

• How to detect: When the 800 SP reel FG (IC14 - pin62) pulses (= 20 rotation) or more are output during the loading.

33:1 Unloading cannot be completed

VTR operation: It enters the AUTO OFF mode.

• [AUTO OFF] display in the LCD: Lit.

Causes:

Malfunction of a mode sensor, a loading motor, an MDA circuit (IC21) or a loading mechanism.

An inferior of a cassette tape.

 How to detect: The unloading cannot be completed within eight seconds when it checks the mode sensor output (IC6 - pin19, 20, 21).

56:3 SP reel over run due to a tape breakage

• VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts. Abnormal tape winding in a cassette.

• How to detect: When the SP reel FG (IC14-pin 62) becomes a high frequency exceeding the specific limit for 3 seconds or more during the capstan REV mode.

56:4 TU reel over run due to tape breakage

• VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Refer to the error code "56:3". Causes:

• How to detect: When the TU reel FG (IC14-pin 63) becomes a high frequency exceeding the specific limit for 3 seconds or more during the capstan FWD mode.

56:5 The simultaneous detection of begin and end of the tape due to a tape breakage

• VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.

• [AUTO OFF] display in the LCD: Not lit.

Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

• How to detect: When both the tape begin sensor (IC14 pin77) and the tape end sensor (IC14 - pin76) outputs are of a low level during loading.

56:6 Tape breakage during unloading

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- IAUTO OFFI display in the LCD: Not lit.
- Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

 How to detect: When the 1200 SP reel FG (IC14 - pin62) pulses (= 30 rotation) or more are output during unloading.

56:8 Tape breakage during loading

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes:

Refer to the error code "56:6".

 How to detect: When only the 20 SP reel FG (IC14 - pin62) pulses (= 1/2 rotation) or less are output during loading.

57:1 Short REW cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes:

Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

Malfunction of the tape end sensor

• How to detect: The tape end sensor output (IC14 - pin76) stays at a low level even when the 100 SP reel FG (IC14 - pin62) pulses (= 2.5 rotations) or more are output in the Short REW mode. (Short REW mode: When it detects the tape end soon after a cassette is inserted, it rewinds the tape equivalent to 2.5 rotations of the SP reel with approx. 5x-speed. This operation is called a Short REW mode.)

57:2 Skip REV cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes:

Refer to the error code "57:1".

 How to detect: The tape end sensor output (IC14 - pin76) stays at a low level when the SP reel is rotated for five seconds or more in the Skip REV mode.

(Skip REV mode: When it detects the tape end at the loading end, it rewinds a leader tape at -1X speed. This operation is called a Skip REV mode.)

57: 4 Tape end detection during REV running

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "57:1".
- How to detect: The tape end sensor output (IC14 pin76) becomes low level when a tape is wound in the REV direction.

58:1 Short FF cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Tape breakage due to abnormal tension, insertion of a damaged tape or scratches on the mechanism running parts.

A malfunction of the sensor may cause this error due to an exposure to sunlight or incandescence when the unit is used without an outer case.

Malfunction of tape begin sensor

• How to detect: The tape begin sensor output (IC14 - pin77) stays at a low level even when the TU reel is rotated for three seconds and the 50 TU reel FG pulses (= a little more than one rotation) are output in the Short FF mode. (Short FF mode: When it detects a tape beginning soon after a cassette is inserted, it first forwards a tape equivalent to the leader tape with approx. 5x-speed. This operation is called a Short FF mode.)

58:2 Skip FWD cannot be completed

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "58:1".
- How to detect: The tape begin sensor output (IC14 pin77) stays at a low level when the SP reel is rotated for five seconds or more in the Skip FWD mode.

 (Skip FMD mode) When it detects a tape.

(Skip FWD mode: When it detects a tape begin at the loading end, it first forwards a reader tape at normal speed. This operation is called a Skip FWD mode.)

58: 4 Tape begin detection during FWD running

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "58:1".
- How to detect: The tape begin sensor output (IC14 pin77) becomes low level when a tape is wound to the FWD direction.

70:1 Abnormal rotation of a drum motor

- VTR operation: It enter the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lit. (However, it does not light during loading).

Causes:

Malfunction of a drum motor inside a drum

assembly or an MDA circuit.

Disconnection of a drum assembly.

Malfunction of a switching regulator circuit

(S/S REG board IC502)

• How to detect: The drum FG (IC14 - pin65) cannot be detected for two seconds or more in the cor-

rect drum motor rotation mode.

71:1 Abnormal rotation of a capstan motor

• VTR operation: It enters the AUTO OFF mode.

• [AUTO OFF] display in the LCD: Lit.

Causes:

Malfunction of a capstan motor or an MDA circuit inside a capstan motor assembly. Disconnection of a capstan motor assembly. Malfunction of a switching regulator circuit (S/S REG board IC502)

• How to detect: Any capstan FG (IC14 - pin 64) pulse is not output for one second or more in the cap-

stan drive mode (PLAY, REC, SEARCH FWD/

REV).

72:1 Tape is slack at the tape supply side during the capstan drive mode

• VTR operation: It enters the AUTO OFF mode.

• [AUTO OFF] display in the LCD: Lit.

• Causes:

Malfunction of a reel motor or a MDA circuit (S/S REG board IC31, Q26 - Q29).

Disconnection of the reel motor assembly. Malfunction of the switching regulator circuit (S/S REG board IC502).

Failure of a reel idler.

• How to detect: Any SP reel FG (IC14 - pin62) pulse is not output while the 6912 capstan FG (IC14 pin64) pulses (= 4.8 rotation) are generated in the capstan drive mode (PLAY, REC.

SEARCH FWD/REV).

72:4 SP reel overrun when a cassette is not inserted

VTR operation: It enters the AUTO OFF mode.

• [AUTO OFF] display in the LCD: Lights.

Causes:

Wrong detection of reel FG because of the interference of pulses.

Malfunction of reel MDA circuit (S/S REG

board IC31, Q26 - Q29).

 How to detect: When the SP reel FG (IC14-pin 62) becomes a high frequency exceeding the specific limit for 3 seconds or more without inserting a

cassette.

72:5 SP reel does not rotate during unloading

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- Refer to the error code "72:1". Causes:

• How to detect: Only 20 SP reel FG (IC14 - pin62) pulses (= 1/2 rotation) are output during unloading.

72:7 SP reel does not rotate during Short REW

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "72:1".
- How to detect: Only 100 SP reel FG (IC14 pin62) pulses (= 2.5 rotation) or less are output within five seconds during the Short REW mode. (Short REW mode: When it detects the tape end soon after a cassette is inserted, it rewinds the tape equivalent to 2.5 rotations of an SP reel with approx. 5x-speed. This operation is called a Short REW mode.)

73:1 Tape slack at the take-up side during the capstan drive mode

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- · Causes: Refer to the error code "72:1".
- How to detect: Any TU reel FG (IC14 pin63) pulse is not output while the 6912 capstan FG (IC14 pin 64) pulses (= 4.8 rotation) are generated in the capstan drive mode (PLAY, REC, SEARCH FWD/REV).

73:4 TU reel overrun without a cassette insertion

- VTR operation: It enters the AUTO OFF mode.
- [AUTO OFF] display in the LCD: Lights.
- Causes: Refer to the error code "72:4".
- How to detect: TU reel overruns without inserting a cassette, and the 40 TU reel FG (IC14 - pin63) pulses (= one rotation) or more are output in a second.

73:7 SP reel does not rotate during Short FF

- VTR operation: It ejects a cassette. When a cassette is inserted again and the loading is completed, the warning is released.
- [AUTO OFF] display in the LCD: Not lit.
- Causes: Refer to the error code "72:1".
- How to detect: The tape begin sensor output (IC14 pin77) stays at a low level even if the TU reel is rotated for three seconds and the 50 TU reel FG pulses (= a little more than one rotation) or less are output in the Short FF mode. (Short FF mode: When it detects a tape beginning soon after a cassette is inserted, it first forwards the tape equivalent to the leader tape with approx. 5x-speed. This operation is called a Short FF mode.)

1.7 EEPROM

IC34 on the S/S REG board is an EEPROM which can erase and write electrically and stores the following data regarding DIAG mode.

Stored data	In EEPROM replacement
[Group 1] Data of hour meter	All data will be reset.
[Group 3] Setting data of the battery alarm/end detection voltage	Returns to the factory setting
[Group 4] Setting data of setup menu (Including menus for users)	Returns to the factory setting
[Group 7] Adjusted data set at the Adjustment mode	Returns to the factory setting
[Group 8] Data regarding to the Warning history	All data will be deleted,
[Group 9] Setting data of the setup menu saved at the DIAG menu "b1"	All data will be deleted.
Model name, serial No. (only to be used at the factory)	All data will be deleted.

Table 1.7 (1) EEPROM stored data

When the EEPROM is replaced, the following adjustment data for the group 7 return to the factory setting applies. Make sure to readjust them again.

- (1) DIAG menu No. 5d: Capstan FG duty/gain auto adjustment
- (2) DIAG menu No. 5F: Reverse torque adjustment
- (3) DIAG menu No. 61: Unloading torque adjustment
- (4) DIAG menu No. 62: PLAY torque adjustment
- (5) DIAG menu No. 64: Switching point auto adjustment
- (6) DIAG menu No. 68: Tracking preset auto adjustment
- (7) DIAG menu No. 72:RF record current auto adjustment
- (8) DIAG menu No. 86: Battery voltage detection auto adjustment

1.8 LITHIUM BATTERY

BR-D40 employs a lithium battery (nominal voltage: 3 V) for the back up of the LCD micro computer. The data to be backed up is explained below.

- (1) Time code generator data (With free run mode, it keeps on counting during the execution of back up)
- (2) Date/Time data for SUB TC
- (3) Continuous recording IN point data
- (4) CTL counter data

IC418 on the S/S REG board performs switching to a lithium battery for backup.

This IC switches the power supply of the LCD micro computer to a lithium battery when the main voltage becomes 4.7 V or less. At this time, IC418 switches the "CS" output to low level, the LCD micro computer switches the clock oscillator to X402 and it will be operated with the sleep mode. Also, the IC418 detects the voltage of the lithium battery. When the voltage become 2.7 V or less, it switches the "PREEND" output to low level, then displays the alarm "Li" on the display.

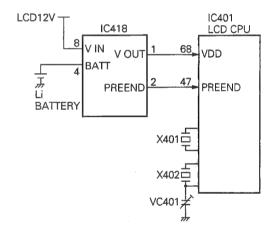
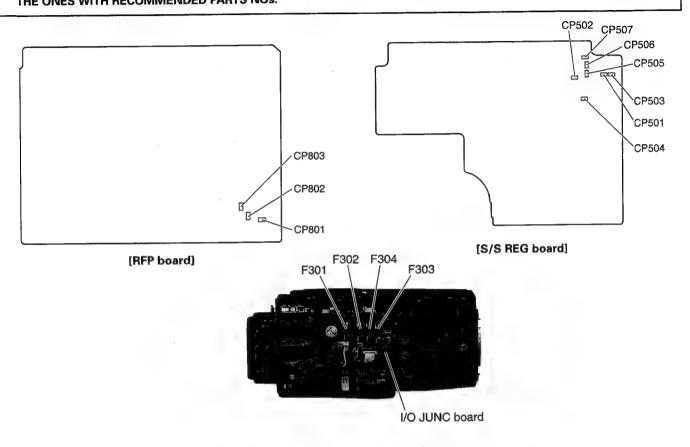


Fig. 1-8 Back up circuit

1.9 FUSES AND CIRCUIT PROTECTORS



Fib. 1-9 Fuse, circuit protector layout diagram

Board names	Symbol No.	Symptoms in disconnection	Parts Nos.
I/O JUNC	F301	Power cannot be turned on. (No power is supplied to the set.)	Refer to page 5-2
,, 0	F302	The power cannot be turned ON. (However, 12 V is output from DC OUT terminal and the camera connection terminal.)	Refer to page 5-2
	F303	The power is not supplied from a camera connection terminal to a camera.	Refer to page 5-2
	F304	12 V is not output from DC OUT terminal.	Refer to page 5-2
S/S REG	CP501	The loading motor does not rotate. The flying erase circuit does not operate.	Refer to page 6-28
2, 2	CP502	The power cannot be turned ON. (The SW regulator does not operate.)	Refer to page 6-28
	CP503	The power cannot be turned ON. (LCD micro computer does not operate.)	Refer to page 6-28
	CP504	48 V is not output from the AUDIO IN terminal.	Refer to page 6-28
	CP505	Malfunction of the battery voltage detection.	Refer to page 6-28
	CP506	No audio is output from the EARPHONE terminal.	Refer to page 6-28
	CP507	The battery alarm malfunctions when the voltage of the battery type is set at other than 12 V and 12 V is supplied from the DC IN terminal.	Refer to page 6-28
RFP	CP801	No picture and digital audio is not output.	Refer to page 6-22
	CP802	No picture and digital audio is not output.	Refer to page 6-22
	CP803	No picture and digital audio is not output.	Refer to page 6-22

Table 1.9 Symptoms in the disconnection of fuses and circuit protectors

1.10 HOW TO TAKE A CASSETTE OUT IN AN EMERGENCY

In case a cassette cannot be ejected because of malfunctions of the motor and mechanism systems, or any tape slack occurs, follow the procedure explained below to take the cassette out.

- (1) Remove the left side cover. (Refer to the section 1.1.2)
- (2) While observing the condition of the tape and mechanism, take the cassette out using one of the following procedures.
- How to wind a slack tape
 If a slack tape occurs when the unit is in the AUTO OFF
 mode, the tape should be wound with the emergency role
 function.
- (1) Press the "STOP" and the "OPERATE" buttons simultaneously for three sec. or more in the AUTO OFF mode or immediately after the power is turned on.
- (2) Confirm that the LCD counter displays "[-]:P . [] [] [] ", then press the "REW" button while pressing the "OPER-ATE" button. (The supply reel winds the tape for approx. 80 ms.)
- (3) Repeat the procedure (2) to wind up the tape slack, then press the "MENU" button to cancel the emergency role function.
- (4) Press the "EJECT" button to take the cassette out.
- How to take a cassette out manually
 If the emergency role function does not operate because of
 a malfunction of the reel motor, or the unloading does not
 operate because of a malfunction of the loading motor, fol low the procedure explained below to take a cassette out.
- (1) Take out the PRE/REC board and the S/S REG board. (Refer to the section 1.2.6)
- (2) Remove the screw 1 and the spring hook (A) in order to loosen the timing belt.
- (3) Take the timing belt out at the mode motor side.

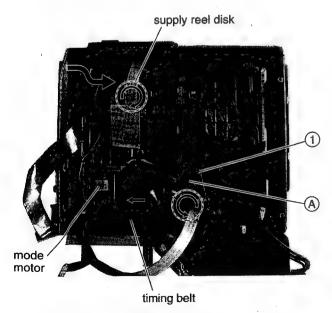


Fig. 1.10 How to take a cassette out manually

- (4) Turning the timing belt in the direction shown in the Fig. 1.10 allows performing of the unloading and eject functions. Any tape slack occurring with this procedure should be wound by inserting a finger from the direction shown with an arrow in the diagram in order to turn the supply reel disk.
 - * Refer to section 2.7.12 for instructions on installing the timing belt.

1.11 OPERATIONS OF SWITCHES AND SENSORS

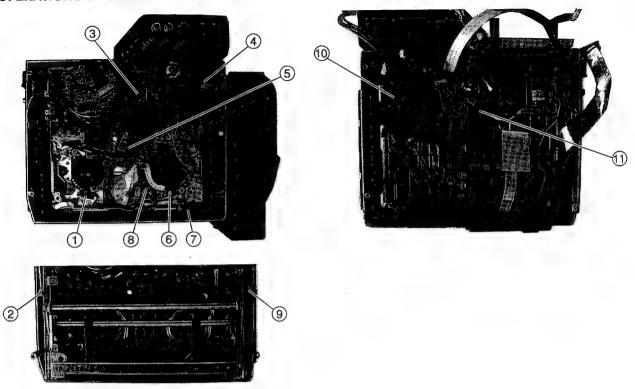


Fig. 1-11-1 Switches and sensors layout

(1) Supply reel FG

40 pulses are output during a cycle of the reel disk.

2 End sensor

This detects the tape end.

3 Dew (condensation) sensor

This detects condensation.

4 After loading sensor

This detects the mechanism positions together with the mode sensor (11).

(5) Tape LED

This illuminates in order to detect the tape end and beginning.

(6) Takeup reel FG

This detects the rotation of a takeup reel.

40 pulses are output during a cycle of the reel disk.

(7) Cassette switch

Three switches are built in.

Outside switch: It detects pits for mis-erase prevention.

Center switch : It detects a digital S cassette.

Inside switch : Not used.

(8) Housing lock switch

Detects the opening and closing of a cassette housing.

(9) Begin sensor

Detects a tape beginning.

(10) Capstan MR

Generates sine waves with a frequency proportional to the rotation speed with a 2-phase output rotation sensor using MR elements.

(11) Mode sensor

Detects mechanism positions and outputs three different signals as explained in Fig. 1.11.2.

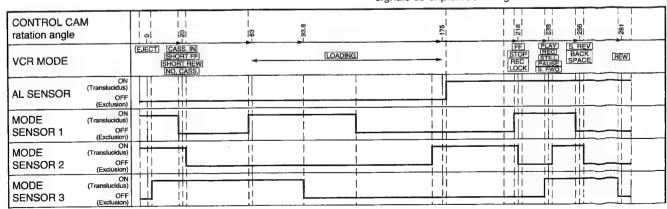


Fig. 1-11-2 Functions of Mode/AL sensors

1.12 SPECIFICATION FOR THE 50PIN CONNECTOR

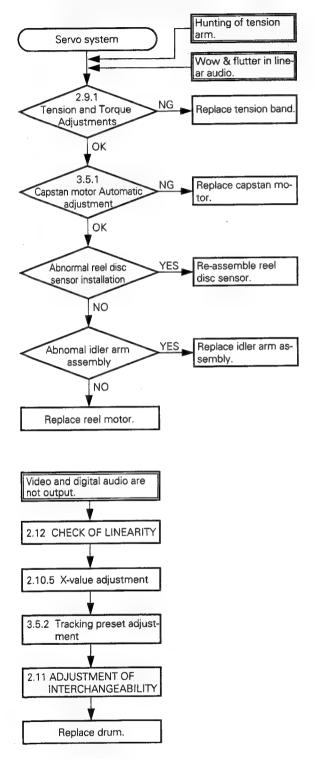
7 6 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 33 32 31 30 39 38 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39

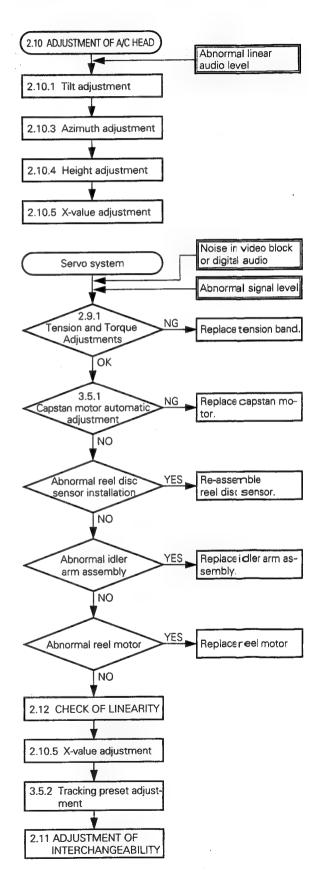
PIN No.	Name	Specs.	PIN No.	Name	Specs.
1	5 V IN	+5 VDC IN	36	B-Y IN	0.7 Vp-p (U ver.)
2		NC			0.525 Vp-p (E ver.)
3		NÇ			Zi: 1 kΩ
4		NC	37		NC
5	POWER GND	GND	38	PB (L) OUT	
6	POWER GND	GND	7		1K
7		NC .	7		PB (H) 0
8		NC	7		r /r
9		NC	39	POWER SUPPLY	MAX 1.7 A
10		NC	40	POWER SUPPLY	MAX 1.7 A
11		NC	41	YIN	1 Vp-p [SYNC 0.286 Vp-p] (U ver.)
12		NC			1 Vp-p [SYNC 0.3 Vp-p] (E ver.)
13	VTR ID OUT	GND	7		Zi: 1 kΩ
14		NC	42	GND	GND
15	MIC1 GND	GND	43		NC
16	MIC1 COLD		44		NC
17	MIC1 HOT	-20 dBs / 10 kΩ BALANCED	45	CAMERA ID IN	KY-D200: LOW
18	RET. VIDEO OUT	1.0 Vp-p / 100 Ω	46	S-VHS (L) OUT	
19		NC			5VT
20		NC	7		46
21	GND	GND	7		10K
22	MIC2 GND	GND	47	SERIAL DATA IN	— 5V
23	MIC2 COLD		7		
24	MIC2 HOT	20 dBs/10 kΩ BALANCED			47
25	SAVE CTL IN	ST-BY: +5 V			
	07.172 012 111	SAVE: OPEN	48	SERIAL DATA OUT	- (2)
		Zi ≥ 10 kΩ	"		48
26	RET, SW IN	RETURN: LOW	_		
20	1121. 300 110	NORMAL: Hi-Z			<i></i>
27	VTR START/STOP	START: +5 V	49	REC TALLY OUT	
2/	VIIISIAIII,SIOI	STOP: 0 V	1	1120 171221 001	5V
		$Z_i \ge 10 \text{ k}\Omega$			2.5V
28		NC	\dashv		5V ALARM REC
29	R-Y IN	0.7 Vp-p (U ver.)	\dashv		(1 or 4 Hz)
23	T1-1 N	0.525 Vp-p (E ver.)	50	WARNING SIG. OUT	
		Zi: 1 kΩ	30	(BATTERY)	
20		NC NC	\dashv	DATTENT	
30 31		NC NC	-		NEAR END (1 Hz) END
	DET AUDIO OUT	-6 dBs/1kΩ UNBLANCED	-		ALAITERO (TTE)
32	RET. AUDIO OUT		-		97
33	GND	GND	-		0
34		NC NC	\dashv		50
35		NC			<u> </u>

Table 1.12 Specification for the 50 pin connector

SECTION 2 MECHANISM ADJUSTMENTS

2.1 MECHANISM ADJUSTMENT FLOWCHART



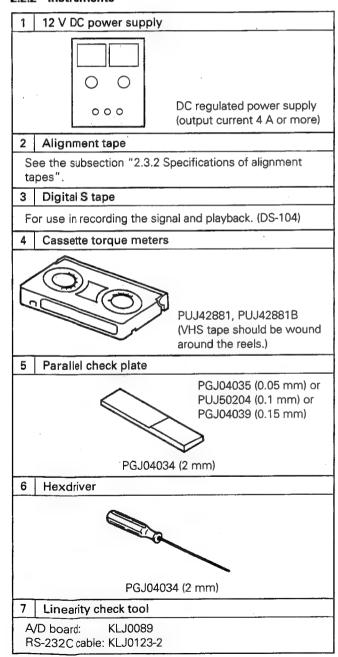


2.2 REQUIRED MEASURING INSTRUMENTS FOR ADJUSTMENTS, STANDARD SETUP

2.2.1 Required measuring instruments for adjustments

Instrument	Condition
Oscilloscope	Capable of measuring 100 MHz or higher bands and calibrated.
Digital voltmeter	Input impedance 10 $M\Omega$ or more, and calibrated.
Audio tester	Must be calibrated.

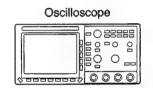
2.2.2 Instruments

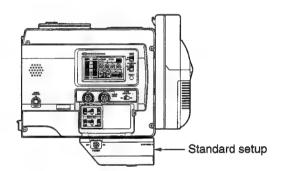


2.2.3 General tools for mechanism adjustments

- Nut driver (5.5 mm)
- Tapered nut driver (PUJ50637)
- Hex. wrenches (0.9 mm, 1.27 mm, 2 mm)
- Phillips screwdrivers (4 mm, 2.6 mm, 2 mm)
- Flat-blade screwdriver
- Precision screwdriver
- Torque driver
- VHS tape (T120)
- DIGITAL S tape (DS104)

2.2.4 Standard setup Oscilloscope





2.2.5 Procedure to activate DIAG mode

- 1) While holding the ADVANCE button depressed, press and hold the MENU button for more than 3 seconds.
- 2) Press the GROUP button to select group 7 (from "58: " to "86: ").
- 3) Press the ITEM button to select the specified menu.
- 4) Press the SELECT button to execute the item. See sub section "1.3.2" for details.

2.3 BEFORE PROCEEDING TO ADJUSTMENT

2.3.1 Precautions

- Before using a soldering iron, be sure to unplug the power cord from the power supply outlet.
- 2) When removing a connector, do not pull the wire section but grasp the plug section.
- 3) In cases of trouble, do not turn adjustment points and potentiometers before the defective point is identified.
- 4) When inserting a cassette tape, do not place the unit on its side or rear or upside down. Otherwise the cassette housing may be damaged.
- 5) Remove the top and side covers before making any mechanism adjustments.
- 6) Each roller should be replaced independently of the replacement operations for other rollers, and the transport system should be checked every time after a roller has been replaced.
- 7) Before electrical adjustments, be sure to turn on the unit and leave it on for at least 10 minutes or more.
- 8) The oscilloscope probe should be a 10:1 probe unless otherwise specified.

2.3.2 Specifications of alignment tape

MHP: for U-ver.

(Stairstep segment of MH1 tape is substitutable)

Video Signal	Audio Signal	Time (min.)	Applications
VHP (SP mode) stairstep	7 kHz (guard band recording)	20	A/C head azimuth adjustment.

MHPE: for E-ver.

(Stairstep segment of MH2 tape is substitutable)

Video Signal	Audio Signal	Time (min.)	Applications
VHS (SP mode) Stairstep	6 kHz	20	For adjustment of A/C head azimuth.

MBA-3: for U-ver.

(Tape that MHA-3 is changed just in the name.)

Video Signal	Audio Signal	Time (min.)	Applications
_	1 kHz (guard band recording)	-	A/C head height adjustment

MBAE-3; for E-ver.

(Tape that MHAE-3 is changed just in the name.)

Video Signal	Audio Signal	Time (min.)	Applications
_	1 kHz (guard band recording)	-	For adjustment of A/C head azimuth.

MSHP

Video Signal	Audio Signal	Time (min.)	Applications
Sine wave	-		Interchange ability adjustment

MSHP-X

Video Signal	Audio Signal	Time (min.)	Applications
Color bar (1 track per frame does not contain video.)	-	50	X-value adjustment, tracking preset adjustment.

2.4 MAINTENANCE AND INSPECTION OF MAIN PARTS

Periodical inspection and maintenance are the prerequisite for ensuring the original performance and reliability of the set. Table 2-4-1 (check and maintenance table for major parts) is compiled as a standard of main parts replacement on the assumption that the set is used in ordinary conditions. Therefore, replacing periods indicated in the table greatly differ depending on actual use and environmental conditions. Moreover, if the set undergoes inspection and maintenance irregularly or is left without inspection and maintenance, it not only shortens the

replacement period considerably but also affects other parts and the whole function.

Rubber parts require careful attention because they are apt to deform or deteriorate if the set is hardly used or left in bad environment.

The life time of the drum depends on use and environmental conditions.

2.4.1 Main Parts Layout

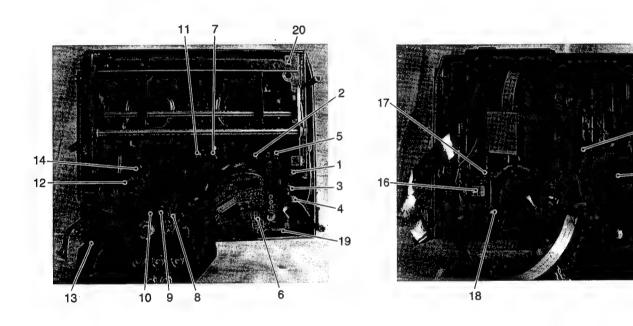


Fig. 2-4-1 Top Side of Deck

Fig. 2-4-2 Back Side of Deck

2.4.2 Check and maintenance table

Table 2-4-1 Check and maintenance table for major parts

★: Cleaning

O: Replacing if required Cleaning if it is not replaced : Replacing

Category	No.	Part Name	Reference section of this manual	(Oper	lard se period ating H ee Not B	l lours)	Symbol No. of part and page which is appears in	Remark
	1	1st guide roller	2.7.2				No. 91, p. 5-8	
	2	Supply tension arm assembly	2.7.4	*		•	No. 119, p. 5-8	Including supply tension band
	3	Full erase head guide roller	2.7.3				No. 108, p. 5-8	
	4	Full erase head assembly	2.7.17	0		•	No. 111, P. 5-8	Including tape scraper
٤	5	Supply pole base assembly	2.7.5	*		•	No. 74, p. 5-8	
ystei	6	Drum assembly	2.5.2	•			No. 36, p. 5-5	
ort s'	7	Take-up guide roller	2.7.11	*		•	No. 68A, p. 5-8	
Tape transport system	8	A/C head assembly	2.7.7	0		•	No. 102, p. 5-8	
oe tra	9	A/D head guide roller	2.7.8	*		•	No. 92, p. 5-8	
Tag	10	Middle guide roller	2.7.9	*		•	No. 110, p. 5-8	
	11	Draw pole base assembly	2.7.11	*		•	No. 70, p. 5-8	
	12	Capstan shaft	2.4.5	*			-	
	13	Pinch roller assembly	2.7.6	*	•		No. 99, p. 5-8	
	14	Take-up tension arm assembly	2.7.10	*		•	No. 84, p. 5-8	Including Take-up tension band
	15	Capstan motor assembly	2.7.13	0	0	•	No. 27, p. 5-7	
	16	Reel motor assembly	2.7.14				No. 43, p. 5-7	Including belt
	17	Mode motor assembly	2.7.15				No. 21, p. 5-7	
	18	Belt	2.6.3	*	•	•	No. 21E, p. 5-7	
	19	Timing belt	2.7.12	*		•	No. 25, p. 5-7	
tem	20	Supply rubber tire	2.7.18				No. 58A, p. 5-6	
sys	21	Take-up rubber tire	2.7.18		<u> </u>		No. 59A, p. 5-6	
Drive system	22	Idler arm assembly	2.6.4				No. 64, p. 5-8	
_	23	Supply tension band	2.6.5	*	•		No. 82, p. 5-8	
	24	Take-up tension band	2.6.6				No. 84D, p. 5-8	
	25	Sub-brake	2.6.7				No. 55, p. 5-8	
	26	Supply reel disk assembly	2.4.6	☆	☆	_^_	_	Oiling to the shaft.
	27	Take-up reel disk assembly	2.4.6		W	☆	_	Oiling to the shaft.
	28	Head cleaner	2.5.3	•	•	•	No. 116, p. 5-8	Excluded from drum assembly
,	29	Cassette housing assembly	2.6.2	*	•		M 5, p. 5-9	
Others	30	Control carn	2.7.16				No. 9, p. 5-7	
Ō	31	Roller	2.7.16				No. 8, p. 5-7	
	32	Pinch cam arm assembly	2.7.16				No. 14, p. 5-7	

Note: For fixing an aim to service, follow the indication of the DRUM HOUR METER appearing on the MENU switch seting screen in general.

A: every 500 hours, B: every 1000 hours, C: every 2000 hours

2.4.3 Cleaning

It is desirable to carry out periodical cleaning of the tape transport system, however, it is almost impossible to do it during actual use of the set. Therefore, clean the tape transport system, without fail whenever the set is brought in for service. For cleaning, use fine woven cotton cloth moistened with ethyl alcohol.

 If the head is dirty or dusty, playback picture may consist of a great deal of minute square blocks because of malfunction of error correction, or the set fails in playing back picture for the worst.

For cleaning the video head, turn the middle drum in the normal direction (the same as VHS model) while pressing quality paper lightly onto the surface of the middle drum.

Note: -

Since the video head is weak against vertical force (applied in up-down direction), it may easily be damaged if cleaning paper is moved.

2. Dirty and dusty tape guide not only increases dirt on the video head but also damages tape.

If dust and foreign particles have collected on and around guide rollers, it may possibly cause abnormal roller rotation and may result in deterioration in picture quality as mentioned above.

2.4.4 Oiling and greasing

If oil or grease looks worn or deteriorated, wipe it off and then apply new oil or greases to the specified place.

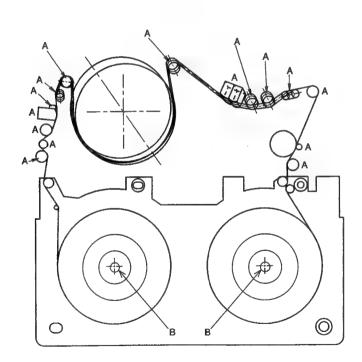
1. Table 2-4-2 shows oil and grease used in this set.

Table 2-4-2 Oil an grease used in this set

Classificcation	Name	Part No.
Oil*	Cosmo Hydro HV56	COSMO-HV56
Grease	Moriton Grease (Black)	MOS2-C

^{*}General spindle oil (low viscosity) is substitutable.

- 2. Control cam needs greasing every 2000 hours of operation.
- 3. Other parts need greasing every 2000 hours of operation or at the time of replacement.
- 4. For parts that need oiling or greasing, refer to the exploded view of SECTION 5 EXPLODED VIEWS AND PARTS LIST.



A : Cleaning

B: Oiling

Fig. 2-4-3

2.5 PERIODICAL MAINTENANCE AT EVERY 500 HOURS

2.5.1 500-hour periodical maintenance flowchart

Fig. 2-5-1 shows the procedure of the periodical maintenance operation to be performed after every 500 hours of operation.

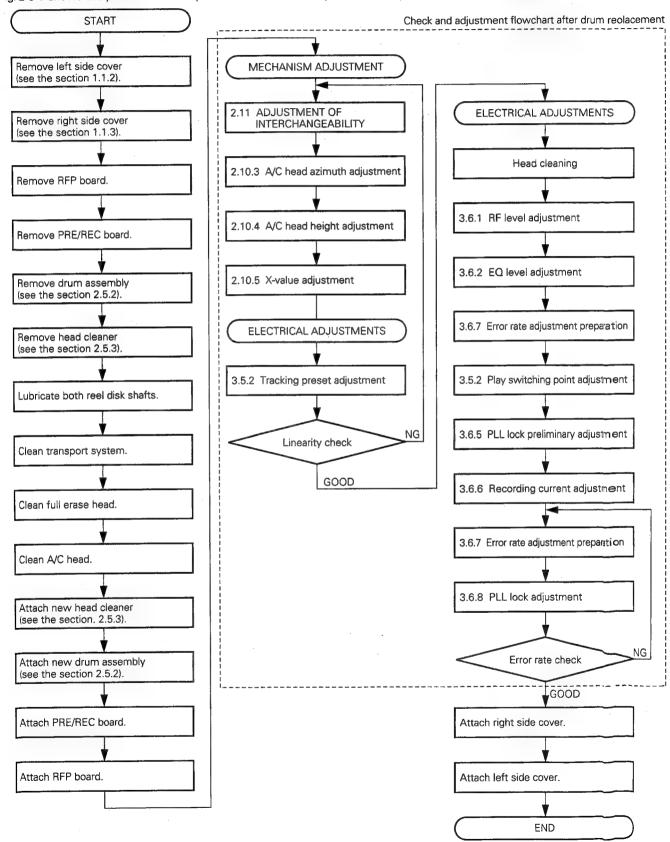


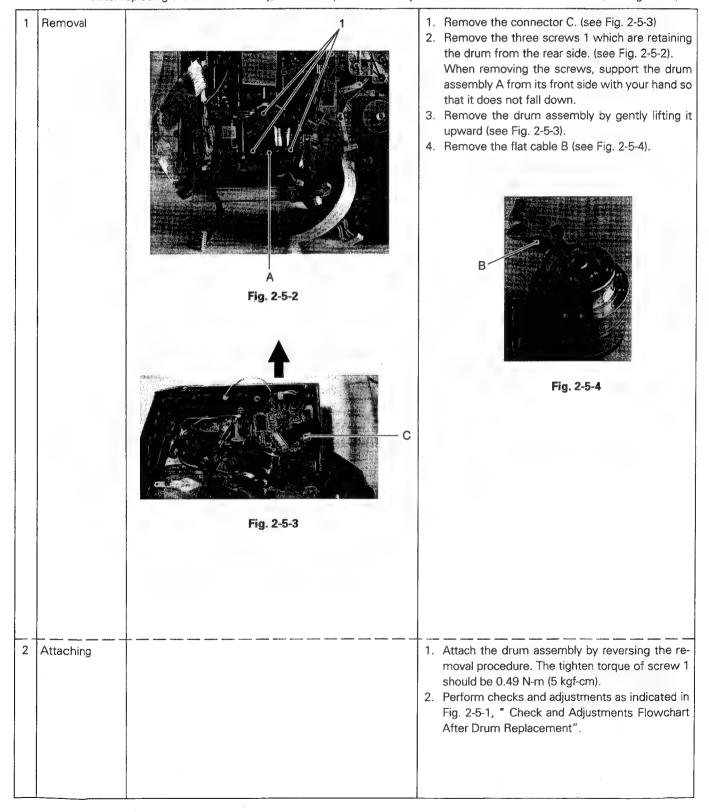
Fig. 2-5-1 500-Hour Periodical Maintenance Flowchart

No.	Item	Reference Diagrams	Procedure
		the state of the s	the first of the f

2.5.2 Drum assembly replacement

[CAUTION] • When replacing the drum assembly, take enough care to avoid leaving fingerprints on the drum assembly, by wearing gloves, etc.

• After replacing the drum assembly, be sure to perform the adjustments as shown in the flowchart (see Fig. 2-5-1).



No.	Item	Reference Diagrams	Procedure

2.5.3 Head cleaner replacement

Removal	31000	1. Pull out the cleaner A (see Fig. 2-5-6).
	Numa, P.	A
	Fig. 2-5-5	
Attaching		1. Insert a new cleaner.
Attacining		

2.6 PERIODICAL MAINTENANCE AT EVERY 1000 HOURS

2.6.1 1000-hour periodical maintenance flowchart

Fig. 2-6-1 shows the procedure of the periodical maintenance operation to be performed after every 1000 hours of operation.

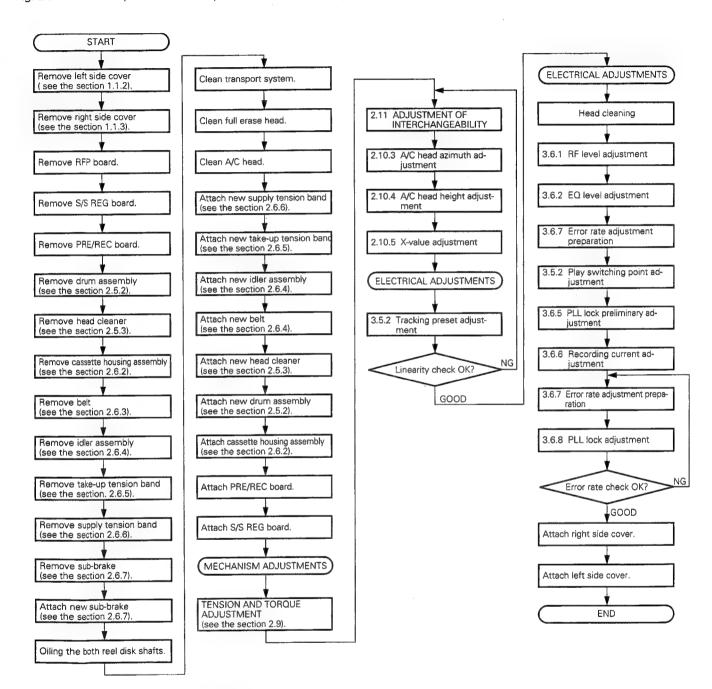
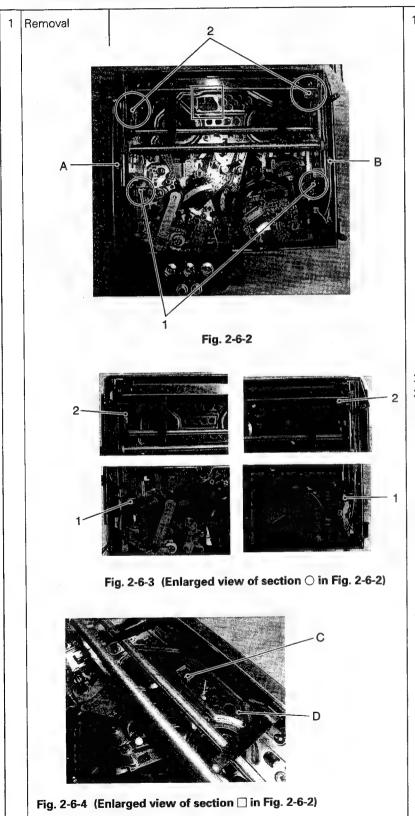


Fig. 2-6-1 1000-Hour Periodical Maintenance Flowchart

No	. Item	Reference Diagrams	Procedure

2.6.2 Cassette housing assembly replacement

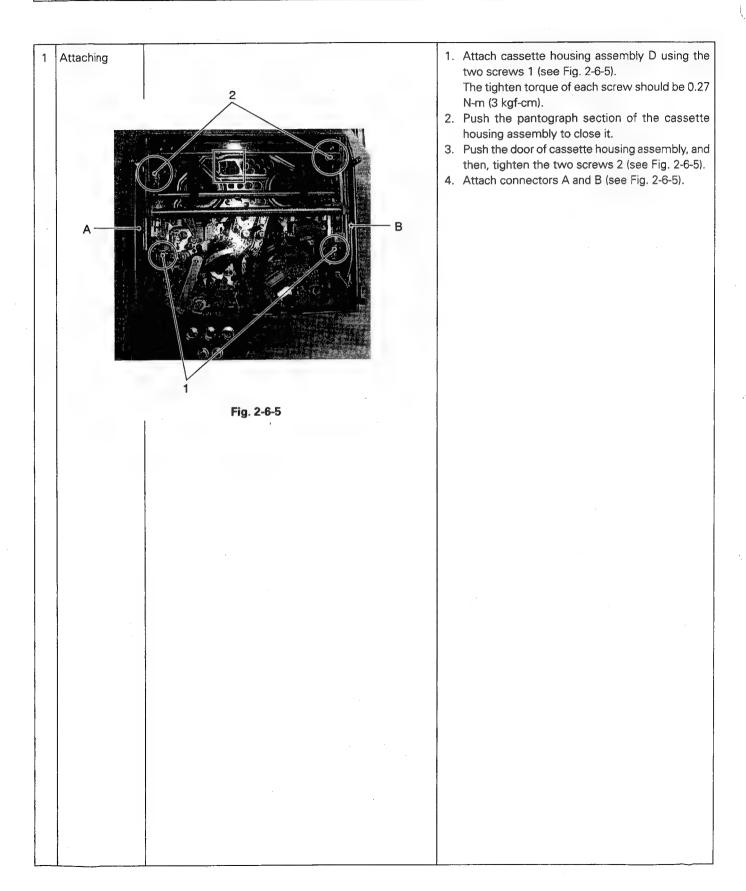


1. Remove the left side cover (see the section. 1.1.2).

- 2. Remove connectors A and B (see Fig. 2-6-2).
- 3. Remove the two screws 1 and loosen the two screws 2 (the screws 2 cannot be removed because they are held by a spring) (see Fig. 2-6-3). The right screw of screws 2 is located behind the door of the cassette housing assembly, so it should be loosened after pushing back the door.

- 4. Remove claw C of the lock unit. This unlocks the cassette housing and opens the cassette housing assembly D (see Fig. 2-6-4).
- 5. Remove cassette housing assembly ${\sf D}.$

N	o. Item	Reference Diagrams	Procedure	
1	· •			

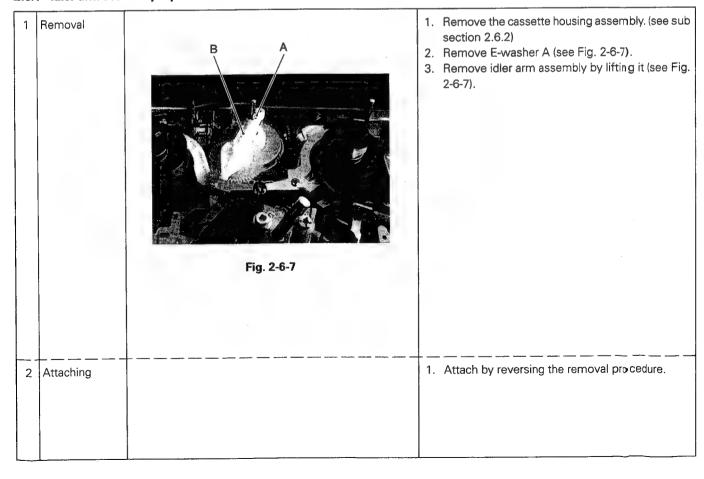


No.	ltem	Reference Diagrams	Procedure

2.6.3 Belt replacement

1	Removal	Α	 Remove the S/S REG and the PRE/REC boards. (see sub section 1.2.6)
			2. Remove belt A (see Fig. 2-6-6).
		Fig. 2-6-6	
	Attaching		Attach by reversing the removal procedure.

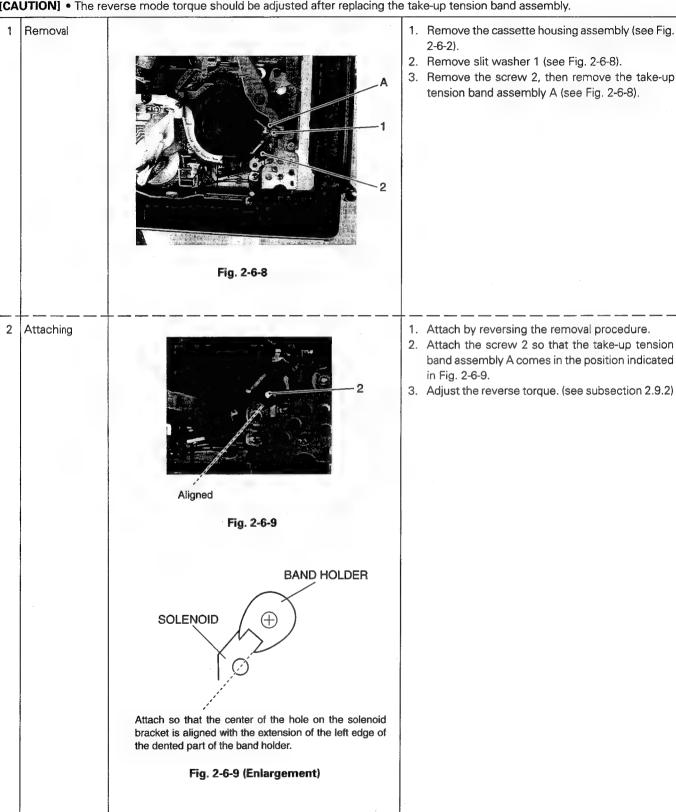
2.6.4 Idler arm assembly replacement



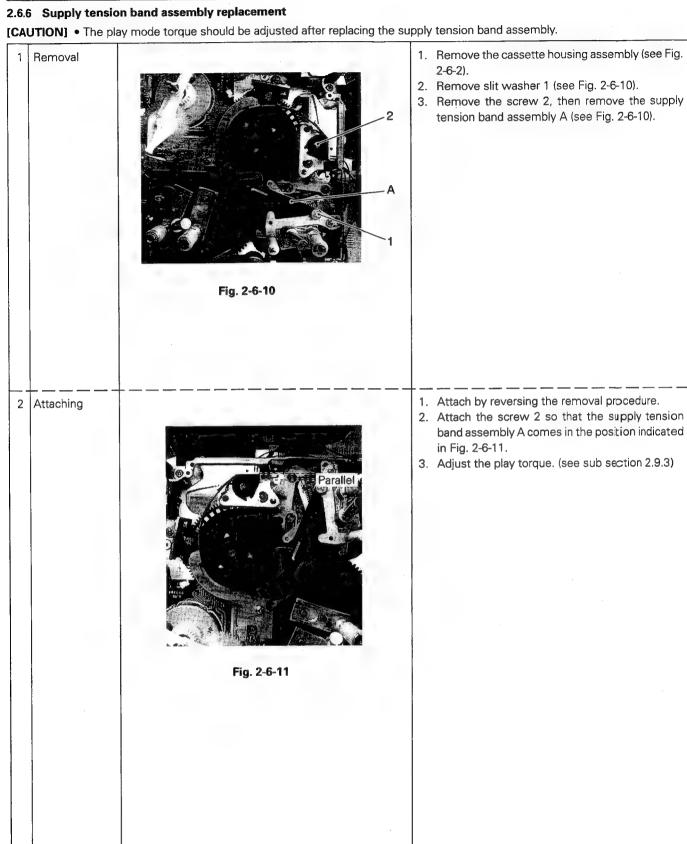
١	Vo.	Item	Reference Diagrams	Procedure
- 1				

2.6.5 Take-up tension band assembly replacement

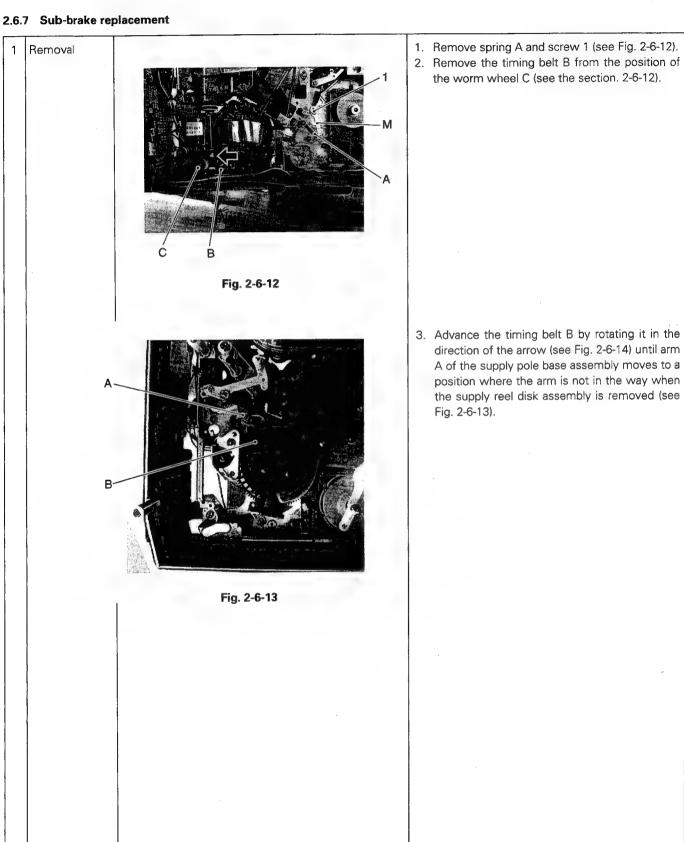
[CAUTION] • The reverse mode torque should be adjusted after replacing the take-up tension band assembly.



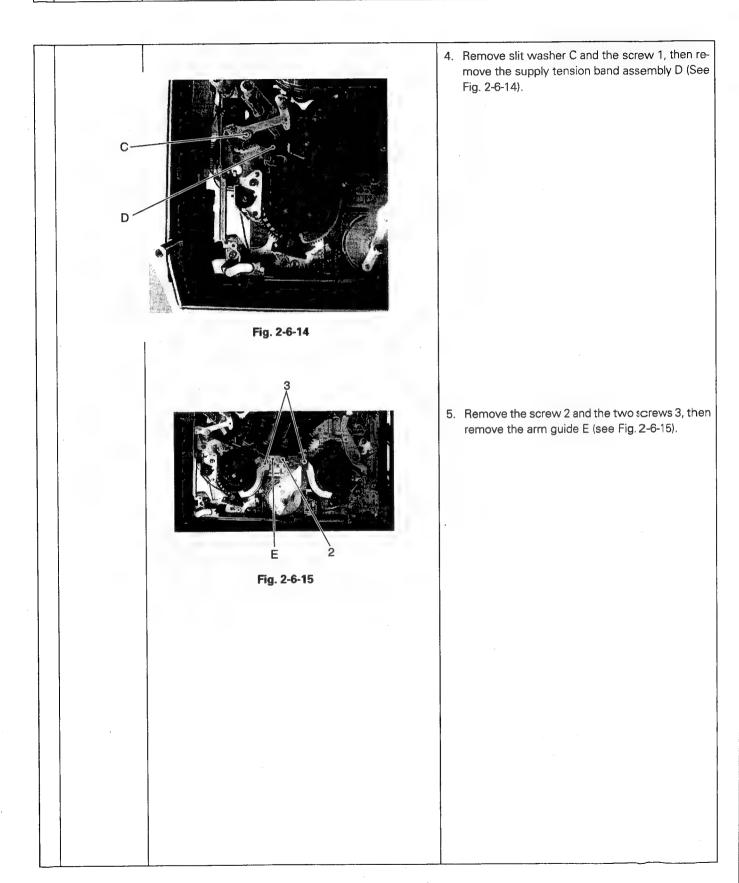
No.	Item	Reference Diagrams	Procedure

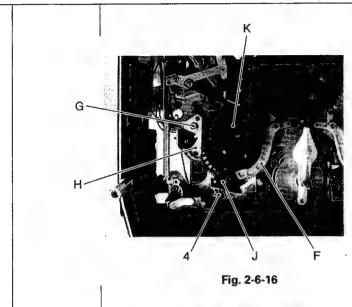


No.	Item	Reference Diagrams	Procedure
1			·



	No.	ltem	Reference Diagrams	Procedure
--	-----	------	--------------------	-----------



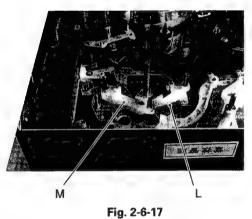


- Remove supply brake arm assembly F by lifting it (see Fig. 2-6-16).
- 7. Remove E-washer G then remove band holder bracket assembly H (see Fig. 2-6-16).
- 8. Remove the screw 4 then remove the SP REEL FG board J (see Fig. 2-6-16).
- 9. Remove supply reel disk assembly K by lifting it (see Fig. 2-6-16).

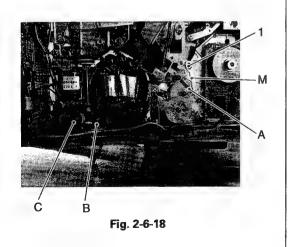
- [CAUTION] -

• Be sure to use the same reel disk assembly.

10. Remove spring L then remove sub-brake assembly M by lifting it (see Fig. 2-6-17).



2 Attaching



- 1. Attach by reversing the removal procedure (see Fig. 2-6-18).
 - After this, adjust the timing belt tension (see the subsection. 2.7.12).

2.7 PERIODICAL MAINTENANCE AT EVERY 2000 HOURS

2.7.1 2000-hour periodical maintenance flowchart

Fig. 2-7-1 shows the procedure of the periodical maintenance operation to be performed after every 2000 hours of operation.

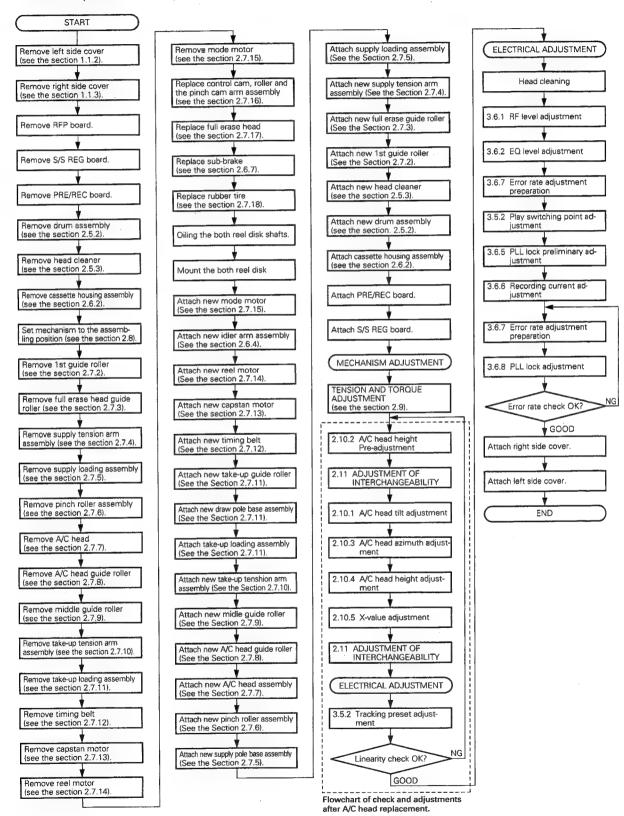


Fig. 2-7-1 2000-Hour Periodical Maintenance Flowchart

No.	Item	Reference Diagrams	Procedure

2.7.2 1st guide roller replacement

1	Removal	A B	 Remove slit washer A (see Fig. 2-7-2). Remove 1st guide roller B (see Fig. 2-7-2).
		Fig. 2-7-2	
2	Attaching	·	Attach by reversing the removal procedure.

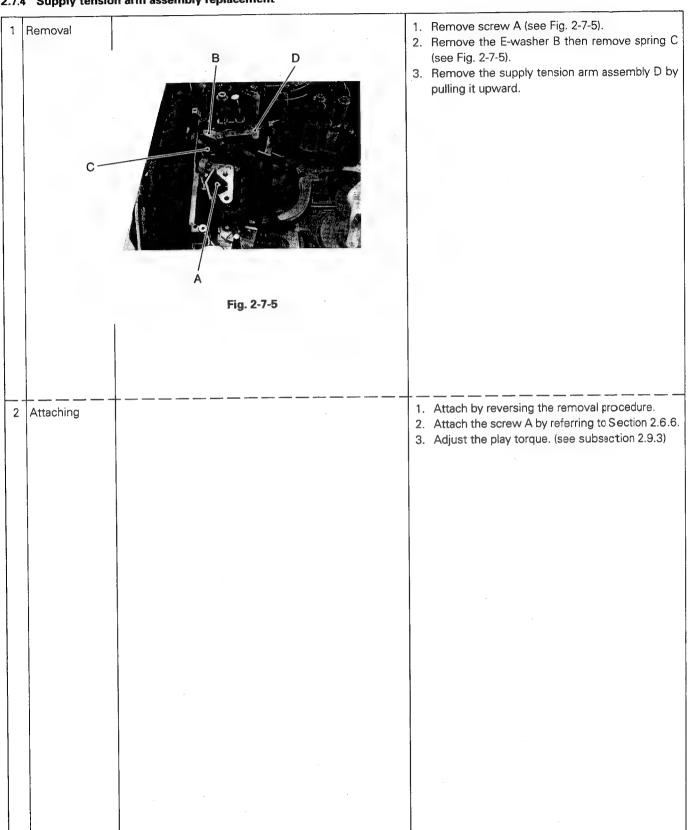
2.7.3 Full erase head guide roller replacement

[CAUTION] • Check the tape transport system after replacing the full erase head guide roller.

1	Removal	Fig. 2-7-3	 Loosen the set screw 1 (which does not have to be removed) (see Fig. 2-7-3). Remove the full erase head guide roller A by rotating it counterclockwise (see Fig. 2-7-3).
2	Attaching	A B 0 1 Fig.2-7-4	 Attach the full erase head guide roller A by inserting and rotating it clockwise. Attach it so that rubber ring B comes in light contact with the surface (see Fig. 2-7-4). Check the tape transport system. (see subsection 2.11) Tighten the set screws 1 in order to fix the full erase head guide roller A.

No.	ltem	Reference Diagrams	Procedure
1	L :		

2.7.4 Supply tension arm assembly replacement

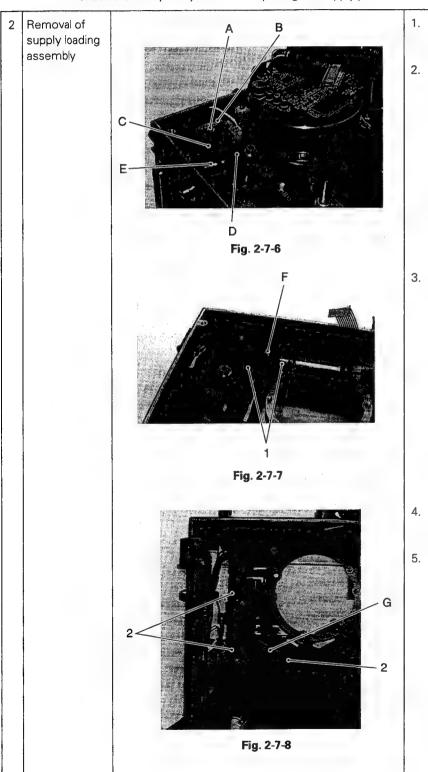


No.	Item	Reference Diagrams	Procedure

2.7.5 Supply pole base assembly and supply loading gear replacement

[CAUTION] • Before replacement, set the mechanism to the position indicated by Section "2.8 MECHANISM ASSEMBLING POSITION".

• Check the transport system after replacing the supply pole base assembly.



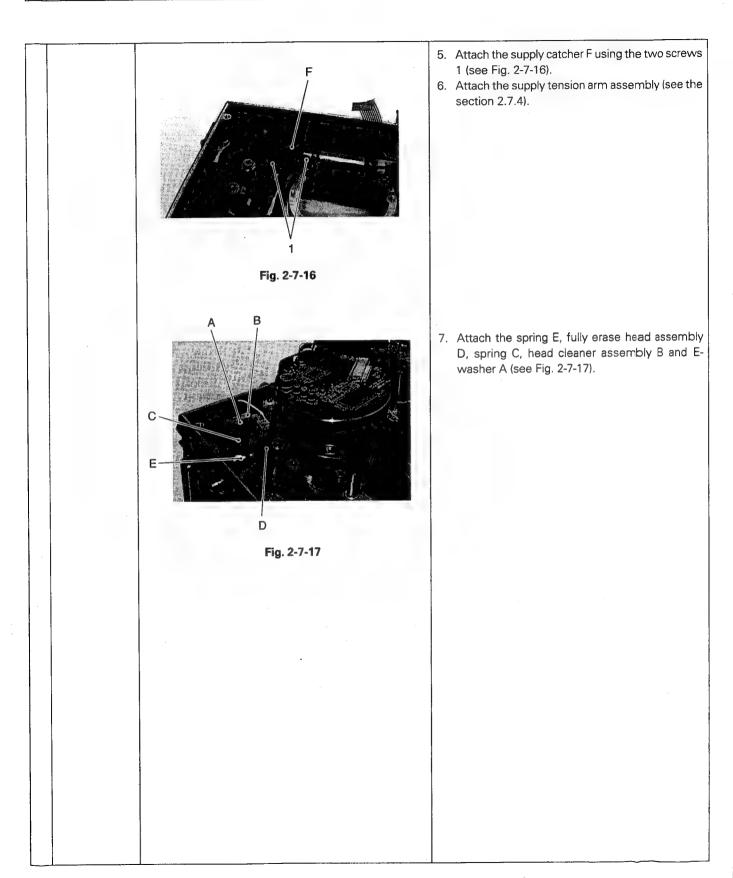
- Remove E-washer A, then head cleaner assembly B, spring C, full erase head assembly D and spring E (see Fig. 2-7-6).
- 2. Remove supply tension arm assembly (see the section 2.7.4).

3. Remove the two screws 1 then remove the supply catcher F (see Fig. 2-7-7).

- 4. Remove the three screws 2 while rotating the supply pole base assembly G slightly clockwise (see Fig. 2-7-8).
- 5. Remove the supply loading assembly by lifting it.

No.	ltem	Reference Diagrams	Procedure
2	Removal of supply pole base assembly	G Fig. 2-7-9	6. Remove the screw 3; this lets the supply pole base assembly come out (see Fig. 2-7-9).
3	Removal of the supply loading gear	Fig. 2-7-10	7. Remove the spring H; this lets the supply load ing gear J come out (see Fig. 2-7-10).
4	Attaching supply loading gear	Fig. 2-7-11	1. Fit the supply loading gear J onto the shaft an attach spring H (attach it so that the longer hoo of the spring comes on the gear side, the shorter hook comes on the arm side, and the opened side of each hook faces the inner side).

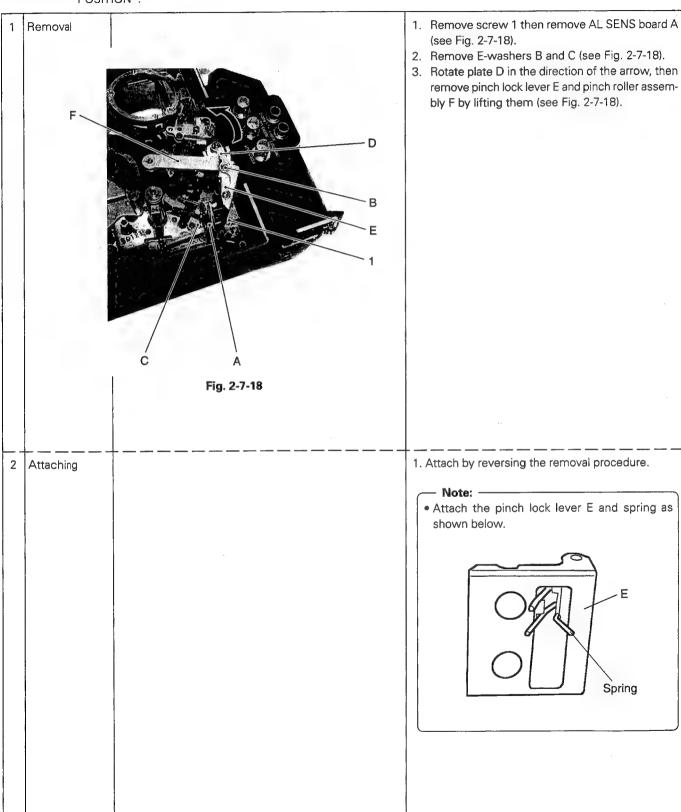
No.	ltem	Reference Diagrams	Procedure
1			



No.	Item	Reference Diagrams	Procedure

2.7.6 Pinch roller assembly

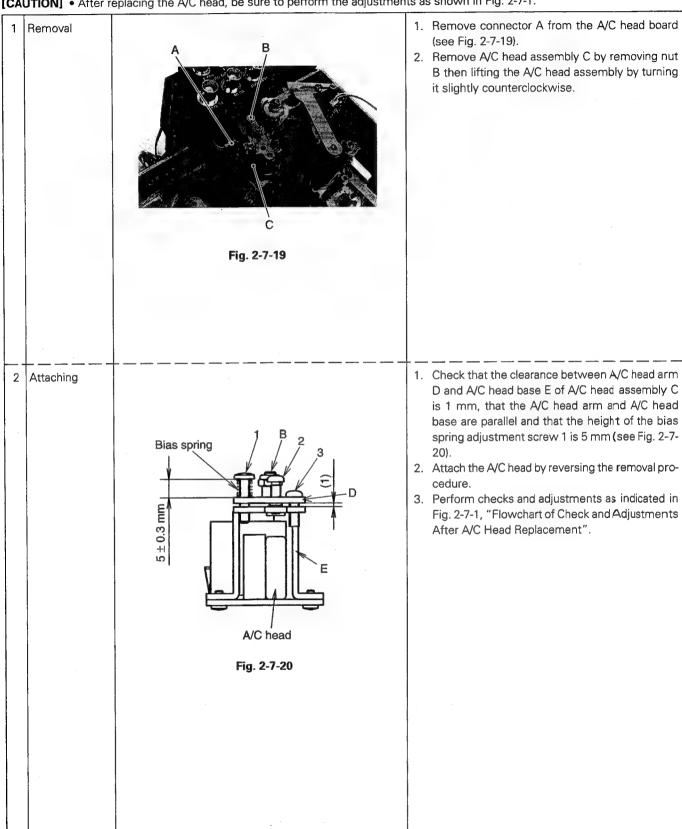
[CAUTION] • Before replacement, set the mechanism to the position indicated in subsection "2.8 MECHANISM ASSEMBLING POSITION".



No.	ltem	Reference Diagrams	Procedure

2.7.7 A/C head replacement

[CAUTION] • After replacing the A/C head, be sure to perform the adjustments as shown in Fig. 2-7-1.



No.	ltem	Reference Diagrams	Procedure

2.7.8 A/C head guide roller replacement

[CAUTION] • Check the transport system after replacing the A/C head guide roller.

1 Removal	Fig. 2-7-22	 Loosen set screw 1 (which does not have to be removed) (see Fig. 2-7-22). Remove A/C head guide roller A by rotating it counterclockwise.
2 Attaching	Fig. 2-7-23	 Attach A/C head guide roller A by inserting it and rotating it clockwise. Attach so that rubber ring B comes in light contact with the attached plane (see Fig. 2-7-23). Check the tape transport system. Tighten set screws 1 to fix A/C head guide roller A.

2.7.9 Middle guide roller replacement

1	Removal	Fig. 2-7-24	1. Remove slit washer A (see Fig. 2-7-24). 2. Remove middle guide roller B (see Fig. 2-7-24).
2	Attaching		Attach by reversing the removal procedure.

No.	ltem	Reference Diagrams	Procedure
	1		

2.7.10 Take-up tension arm assembly replacement

[CAUTION] • Check the transport system after replacing the take-up tension arm assembly.



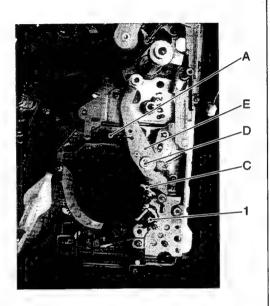


Fig. 2-7-25

- 1. Remove spring A (see Fig. 2-7-25).
- 2. Remove screw 1.
- 3. Remove E-ring D; this lets the take-up tension arm assembly E come out.



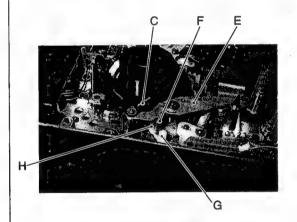


Fig. 2-7-26

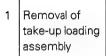
- Attach take-up tension arm assembly E so that lever F of the take-up tension arm assembly enters between the two levers G and H as shown in Fig. 2-7-26.
- 2. Attach E-ring D (see Fig. 2-7-25).
- 3. Attach take-up tension band C using screw 1 (see subsection 2.6.5)
- 4. Attach spring A (see Fig. 2-7-25).
- 5. Adjust the reverse torque. (see subsection 2.9.2)

No.	Item	Reference Diagrams	Procedure
į.			

2.7.11 Take-up guide roller, draw pole base assembly and take-up loading assembly replacement

[CAUTION] • Before replacement, set the mechanism to the position indicated by subsection "2.8 MECHANISM ASSEMBLING POSITION".

• Check the transport system after replacing each assembly.



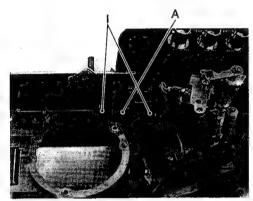


Fig. 2-7-27

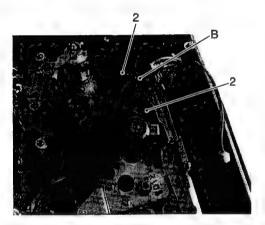
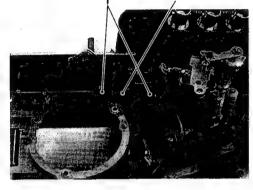


Fig. 2-7-28



- 1. Remove pinch roller assembly (see the section 2.7.6).
- 2. Remove supply loading assembly (see the section 2.7.5).
- 3. Remove the three screws 1 then remove takeup catcher A (see Fig. 2-7-27).



- 5. Remove spring D from take-up tension arm assembly (see Fig. 2-7-29).
- 6. Remove the six screws 3 (see Fig. 2-7-30).
- 7. Remove the two screws 4 which retain draw loading arm assembly; this lets the take-up loading assembly F come out (see Fig. 2-7-30).

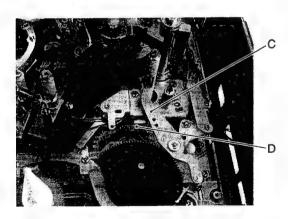


Fig. 2-7-29

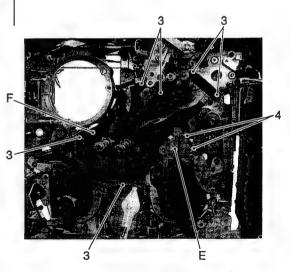


Fig. 2-7-30

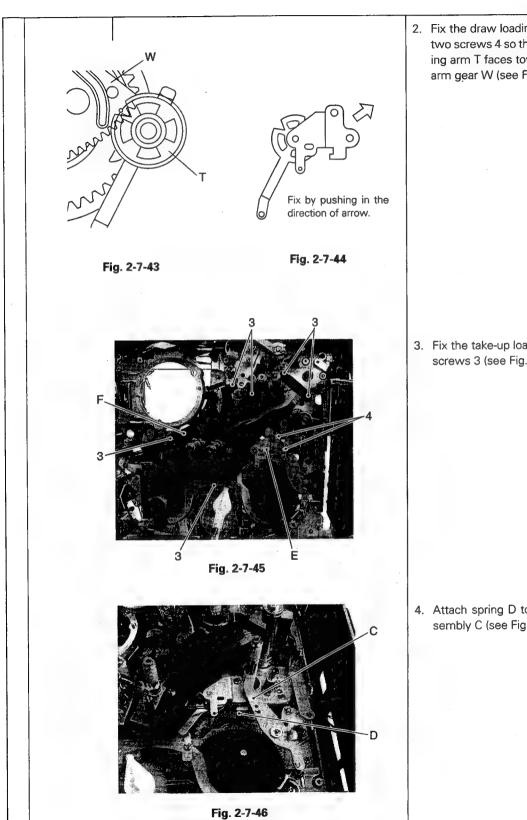
No.	ltem	Reference Diagrams	Procedure
2	Removal of take-up guide roller	G H Fig. 2-7-31	Loosen screw G and remove the take-up guide roller H by rotating it counterclockwise (see Fig. 2-7-31).
3	Removal of draw pole base assembly	₩ K	2. Remove E-washer J then remove draw pole base assembly K by sliding it in the direction of the arrow (see Fig. 2-7-32).
		Fig. 2-7-32	·
4	Removal of take-up loading gear	N M Fig. 2-7-33	3. Remove springs L and M; this lets the take-up loading gear N come out (see Fig. 2-7-33).

No.	Item	Reference Diagrams	Procedure
5	Removal of draw loading gear	Fig. 2-7-34	 Remove spring P (see Fig. 2-7-34). Remove slit washer Ω; this makes it possible to remove draw loading gear R.
6	Attaching draw loading gear	Fig. 2-7-35	1. Fit draw loading gear R onto the shaft and retain it by using the slit washer Q (see Fig. 2-7-35).
	(a) Top view	Sheet metal Remove clearance between the spring and the sheet metal by twisting the spring in the direction of the arrow. (b) Side view Fig. 2-7-36	2. Attach spring P (so that the longer hook of the spring comes on the gear side, the shorter hook comes on the arm side, and the opened side of each hook faces the inner side) (see Fig. 2-7-36).

No.	Item	Reference Diagrams	Procedure
7	Attaching take-up loading gear	N	Fit take-up loading gear N onto the shaft (see Fig 2-7-35).
	(a) T	Fig. 2-7-37 M Op view (b) Side view Fig. 2-7-38	2. Attach springs L and M (so that the longer hook of each spring comes on the gear side, the shorte hook comes on the arm side, and the opened side of each hook faces the inner side) (see Fig 2-7-38).
8	Attaching draw pole base assembly	S	1. Position the draw pole base assembly K on the take-up guide rail S, thread the shaft of the draw loading arm assembly T through from the bottom side, and secure it by using the E-washer (see Fig. 2-5-39).
	ı		

No.	ltem	Reference Diagrams	Procedure
9	Attaching the take-up guide roller	G H	2. Attach take-up guide roller H by inserting it and rotating it clockwise. Attach so that rubber ring U comes in light contact with the attached plane (see Fig. 2-7-40-B). Fig. 2-7-40-B
		Fig. 2-7-40-A	Fig. 2-7-40-B
10	Attaching the take-up loading assembly	O Contract	1. Attach the take-up loading gear N onto the support V on the deck so that the support fits into the hole in the gear (see Fig. 2-7-41). Attach so that the gears are meshed as shown in Fig. 2-7-42.
		Fig. 2-7-41	
		O CONTRACTOR OF THE PARTY OF TH	
		Fig. 2-7-42	

No.	Item	Reference Diagrams	Procedure
-----	------	--------------------	-----------

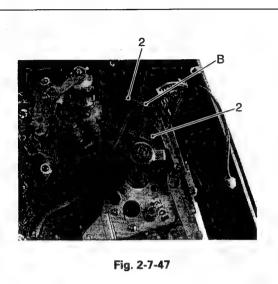


2. Fix the draw loading arm assembly by using the two screws 4 so that the notch on the draw loading arm T faces towards the hole on the loading arm gear W (see Figs. 2-7-43 and 2-7-44).

3. Fix the take-up loading assembly F using the six screws 3 (see Fig. 2-7-45).

4. Attach spring D to the take-up tension arm assembly C (see Fig. 2-7-46).

N	No.	Item	Reference Diagrams	Procedure
1				



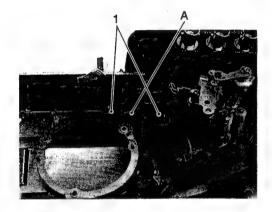


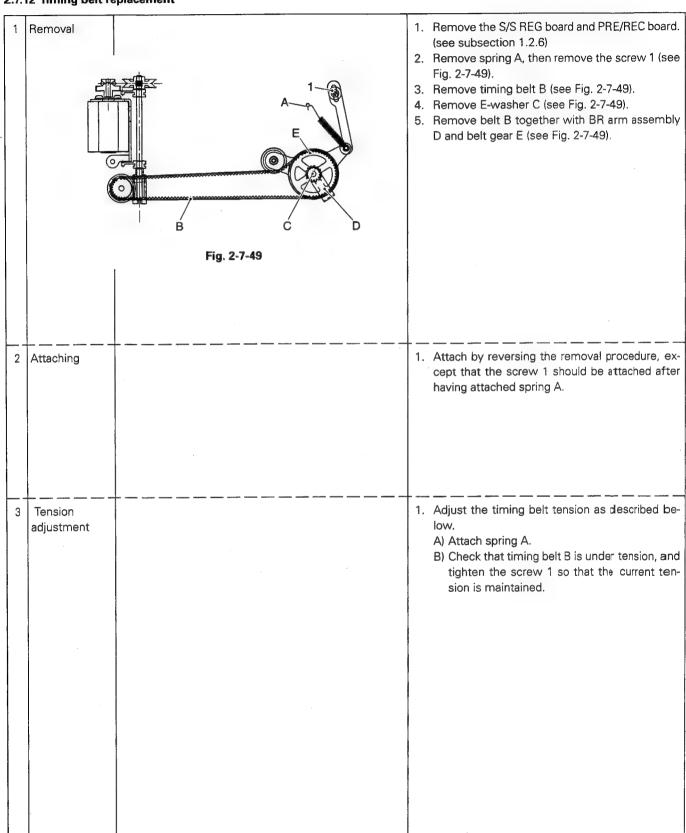
Fig. 2-7-48

5. Attach draw catcher B using the two screws 2 (see Fig. 2-7-47).

- 6. Attach take-up catcher A using the two screws 1 (see Fig. 2-7-48).
- 7. Attach the supply loading assembly (see the section 2.7.5).
- 8. Attach the pinch roller assembly (see the section 2.7.6).

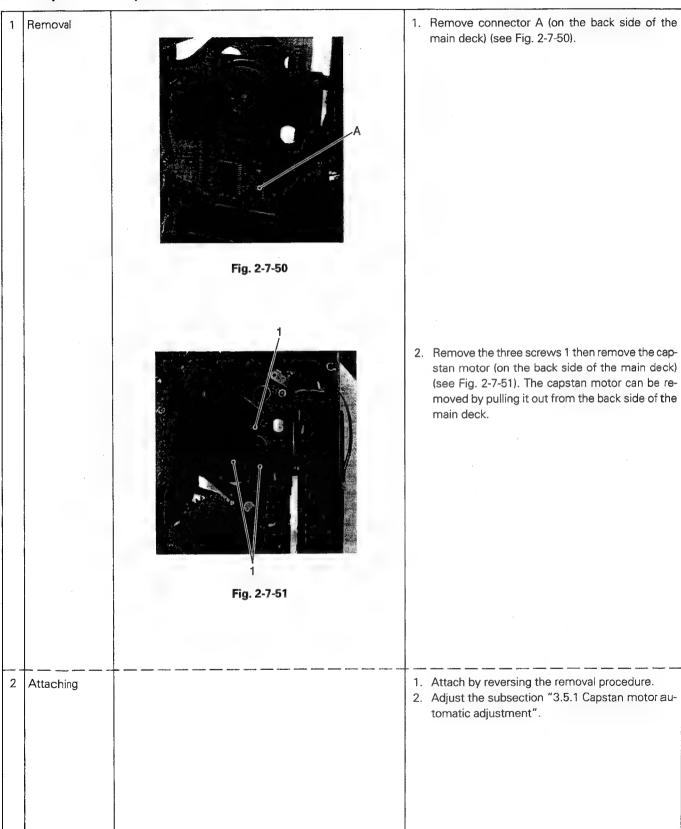
No. Item Reference Diagrams	Procedure
-----------------------------	-----------

2.7.12 Timing belt replacement

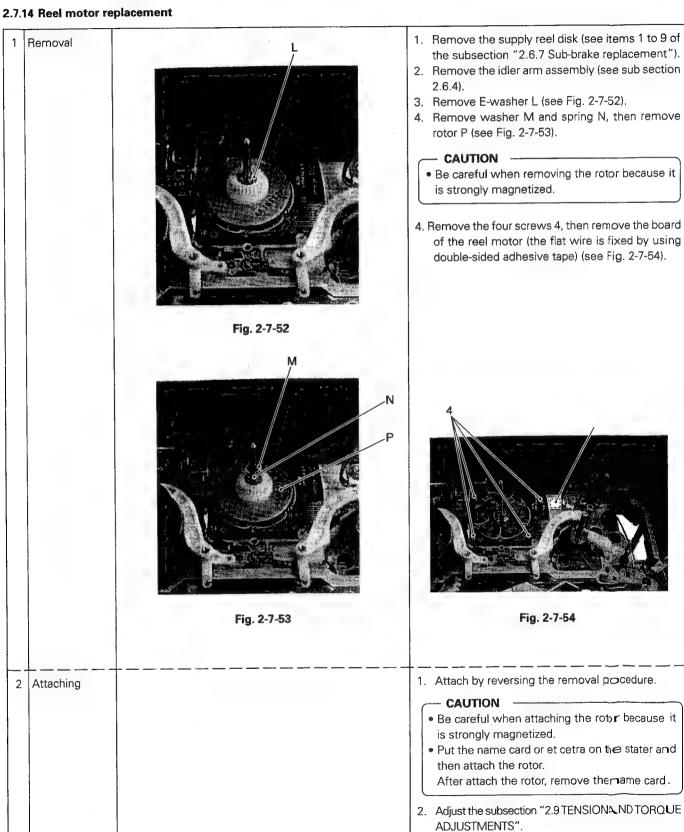


N	o. Item	Reference Diagrams	Procedure _,
- 1	1	ł	

2.7.13 Capstan motor replacement

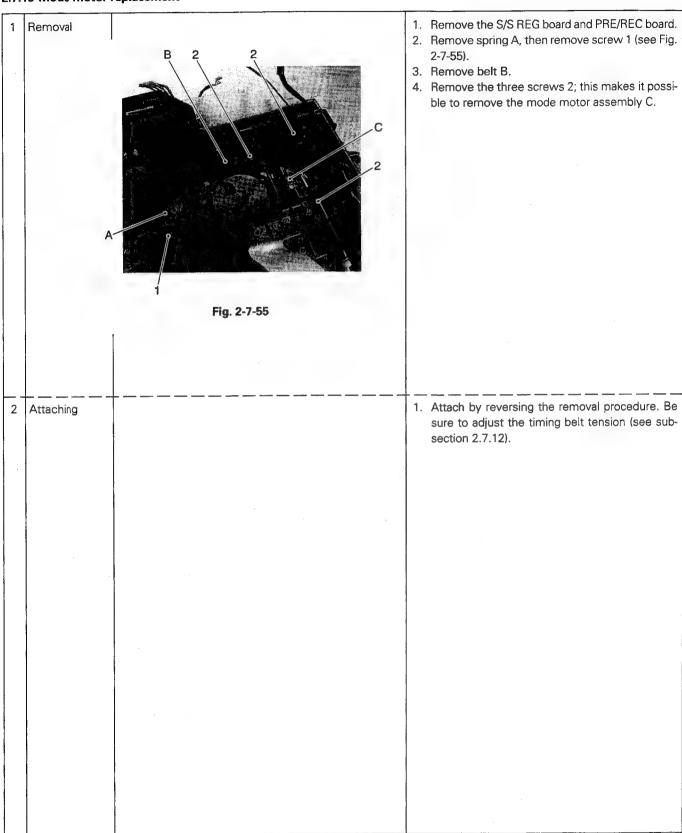


No.	Item	Reference Diagrams	Procedure
1	1		



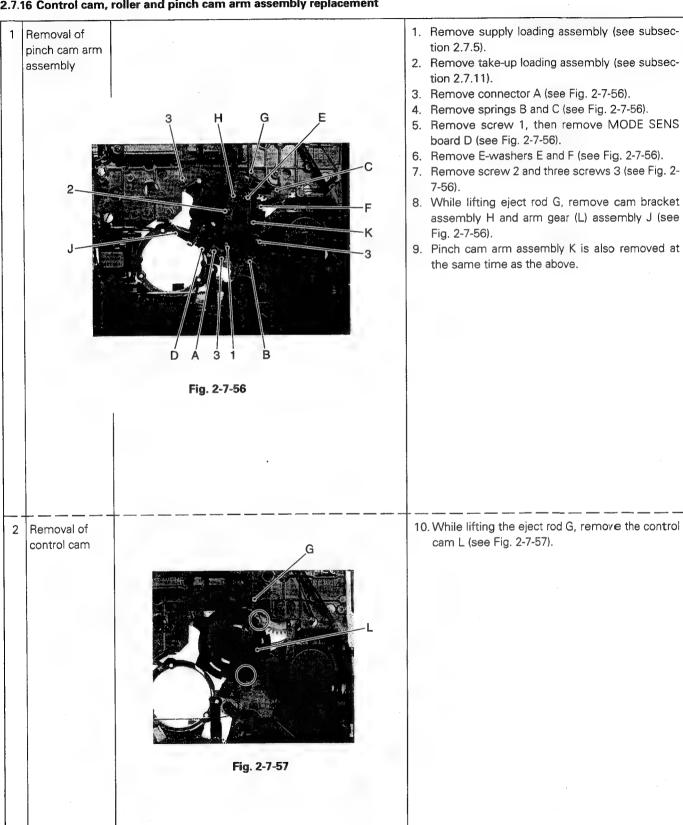
No.	ltem	Reference Diagrams	Procedure

2.7.15 Mode motor replacement



N	lo. Item	Reference Diagrams	Procedure
- 1	1		I

2.7.16 Control cam, roller and pinch cam arm assembly replacement



Item	Reference Diagrams	Procedure
Removal of roller	M N Fig. 2-7-58	Remove E-washer M; this makes it possible to remove roller N (see Fig. 2-7-58).
Attaching roller	<u> </u>	Attach the roller N by reversing the removal procedure.
Attaching the control cam	Fig. 2-7-59	2. Place arm gear (R) P in the assembling position (so that the hole Q of arm gear (R) P is aligned with the hole on the main deck) (see Fig. 2-7-59).
	Align.	3. Attach the control cam L in the assembling position (by aligning the small D marking on the cam idler gear S with the D marking on the control cam L) (see Fig. 2-7-60). Also insert stud R of the arm gear (R) into the groove on the control cam.
	Removal of roller Attaching roller Attaching the control cam	Removal of roller Attaching roller Attaching the control cam Fig. 2-7-59

No.	ltem	Reference Diagrams	Procedure
I			

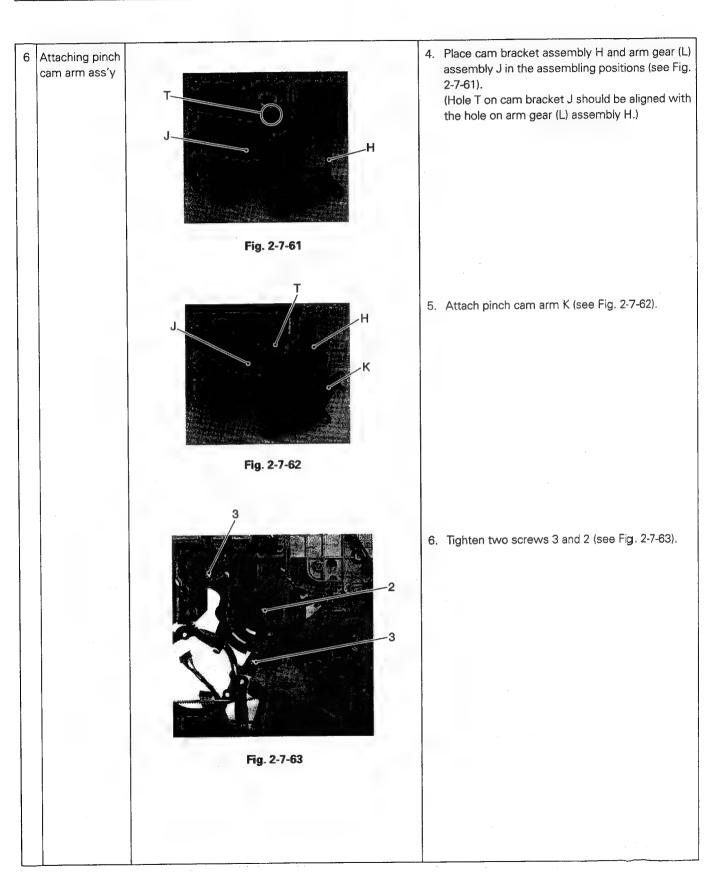




Fig. 2-7-64



Fig. 2-7-65

7. Attach springs B and C (see Fig. 2-7-64).

- 8. Secure the adjust lever assembly U using the screw 3 (see Fig. 2-7-65).
- 9. Attach S-plate assembly V and pinch cam arm assembly K using E-washer F.

[CAUTION] -

- The pinch cam arm assembly must be attached as shown in the diagram. If it is attached as shown by the dotted lines in Fig. 2-7-65, it will be impossible to crimp the pinch roller.
- 10. Attach eject rod G using E-washer E (see Fig. 2-7-66)
- 11. Attach MODE SENS board D using the screw 1 (see Fig. 2-7-66).
- 12. Attach the connector A (see Fig. 2-7-66).
- 13. Attach the take-up loading assembly (seesub section 2.7.11).
- 14. Attach the supply loading assembly (see subsection 2.7.5)

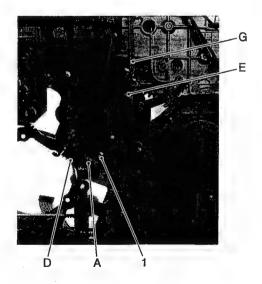
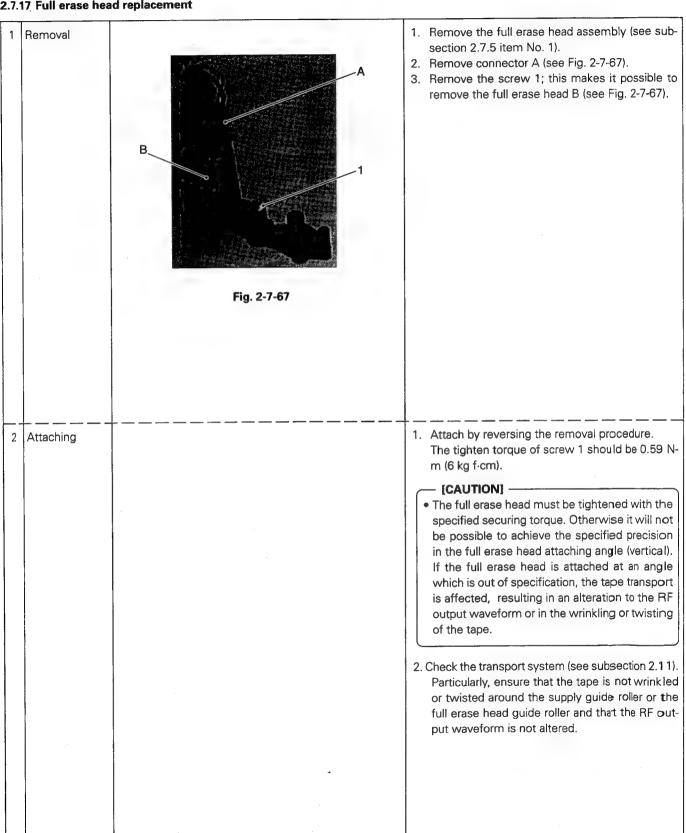


Fig. 2-7-66

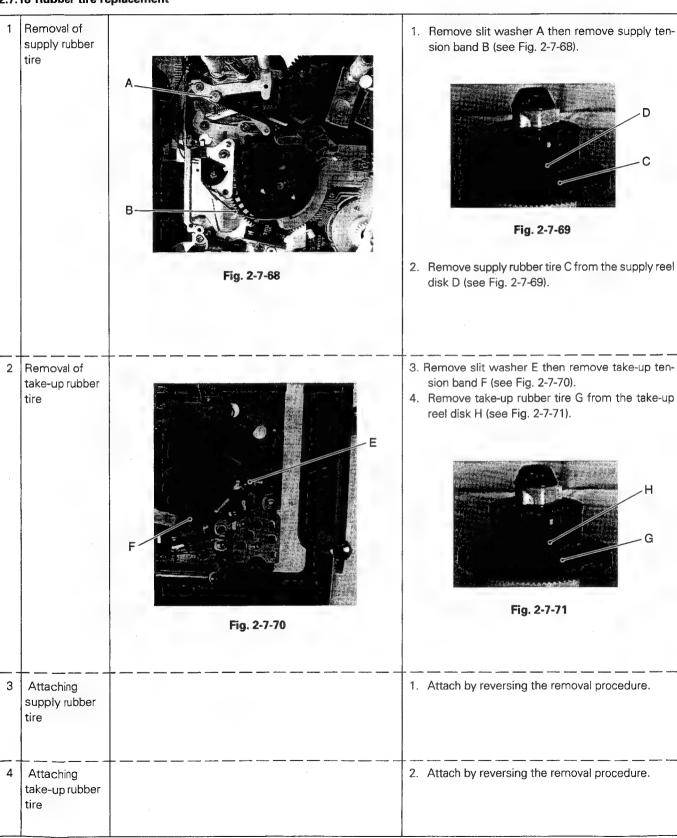
No.	ltem	Reference Diagrams	Procedure

2.7.17 Full erase head replacement



No.	. Item	Reference Diagrams	Procedure
		<u> </u>	

2.7.18 Rubber tire replacement



2.8 MECHANISM ASSEMBLING POSITION

Some mechanical parts of this unit do not function correctly unless they are attached with the specified positioning after replacement. The position of the mechanism that makes possible the attachment or checks of the positioning of these parts is referred to as the assembling position. The unit has been designed so that the markings on the gears are aligned correctly when the mechanism is in this position. The methods for placing the mechanism in the assembling position include "placing gears by turning them manually as shown in Fig. 2.8.1", and so on. This section describes the attaching positions of the gears when the mechanism is in the assembling position.

2.8.1 Pinch idle gear, connect gear, cam idle gear

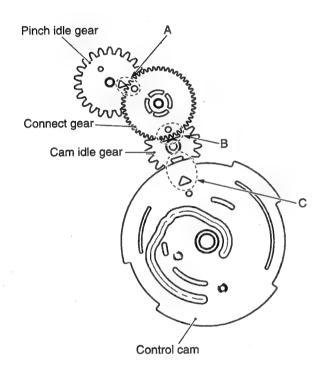


Fig. 2-8-1 Gear Positioning 1 (Bottom Panel Side)

- A : Align the △ marking on the pinch idle gear and o marking on the connect gear.
- B: Align the larger △ marking on the cam idle gear with the marking on the connect gear.
- C : Align the smaller \triangle marking on the cam idle gear with the \triangle marking on the control cam.

2.8.2 Arm gear (L), loading arms (L) (R), Geneva gear

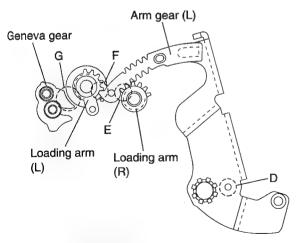
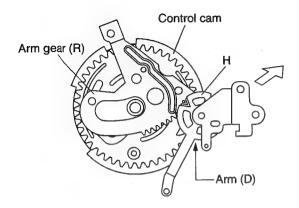


Fig. 2-8-2 Gear Positioning 2 (Perspective View from Above)

- D: The hole on the arm gear (L) should be aligned with the hole on the part below it when viewed from below.
- E: Align the gear end of the loading arm (R) with the end of the groove on the arm gear (L).
- F: Engage the gear end of the loading arm (L) with the end of the arm gear (L) as shown in the diagram.
- G: Align the R section of the Geneva gear with the loading arm (L).

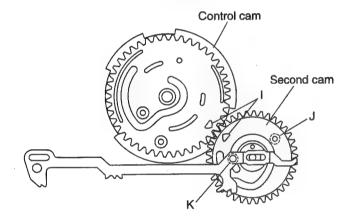
2.8.3 Arm gear (R), arm (D)



H: Align the hole on the arm gear (R) with the notch on the arm (D). The bracket of the arm (D) should be pushed in the direction of the arrow before securing the screw.

Fig. 2-8-3 Gear Positioning 3 (Perspective View from Above)

2.8.4 Second cam, direction plate



- I : Align the △ markings on the control cam and second cam.
- J: The holes on the second cam and the main deck should be aligned.
- K: Insert the stud of the direction plate into the groove on the inner side of the second gear.

Fig. 2-8-4 Gear Positioning 4 (Perspective View from Above)

2.8.5 Pinch roller assembly, cam bracket

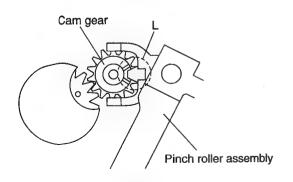


Fig. 2-8-5 Gear Positioning 5 (Top Side View)

L : Orient the notch on the cam gear toward the right.
Insert the stud of the pinch roller assembly into the notch on the cam gear.

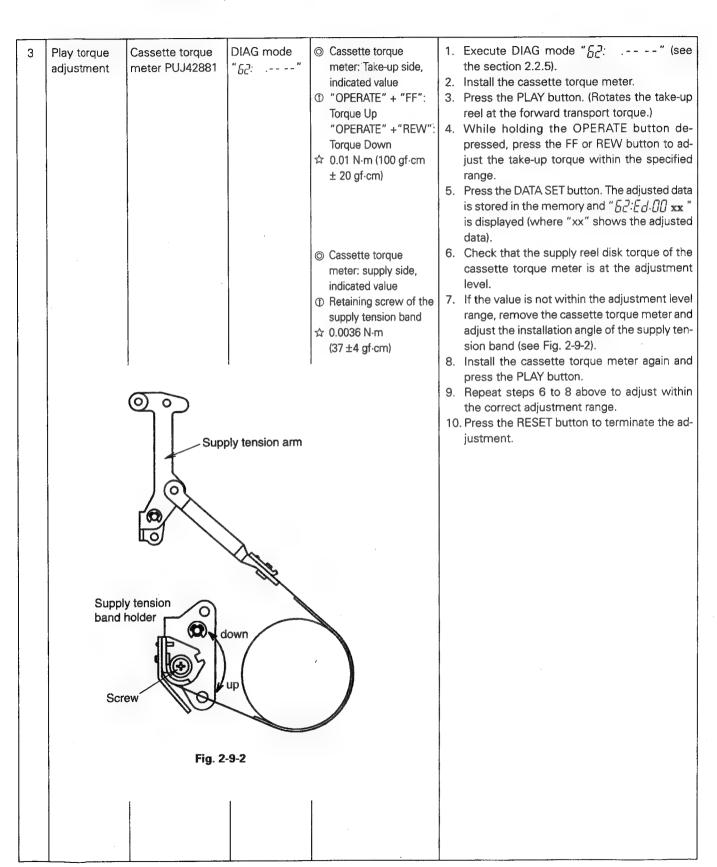
No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	--------------------------------------	------	---	--

2.9 TENSION AND TORQUE ADJUSTMENTS

The rotation torque of the reel motor can be adjusted in the DIAG mode by using the Group 7 adjustment menus. To protect the cassette torque meter, the tape is transported by the capstan motor drive during the torque adjustment operations, even when the FF/REW button is pressed.

even	when the Fr/R	EW button is presse	3a.		
1	Unloading torque adjustment	Cassette torque meter PUJ42881B	DIAG mode	 © Cassette torque meter: Supply side, indicated value ① "OPERATE" + "FF": Torque Up "OPERATE" + "REW" : Torque Down ☆ 0.015 N·m (150 gf·cm ± I20 gf·cm) 	 Execute DIAG mode "61:" (see the section 2.2.5). Install the cassette torque meter. Press the REW button. (Rotates the supply reel at the unloading torque.) While holding the OPERATE button de pressed, press the FF or REW button to ad just the supply torque within the specified range. Press the DATA SET button. The adjusted data is stored in the memory and "61: Ed: 00 xx is displayed (where "xx" shows the adjusted data).
1	Reverse torque adjustment ake-up ension arm	Cassette torque meter PUJ42881B	DIAG mode "5F:"	© Cassette torque meter: Supply side, indicated value ① "OPERATE" + "FF": Torque Up "OPERATE" + "REW" : Torque Down ☆ 0.01 N·m (110 gf·cm ± 20 g-cm)	 Execute DIAG mode "5F:" (see the section 2.2.5). Install the cassette torque meter. Press the REW button. (Initiates the search reverse x 1 mode.) While holding the OPERATE button depressed, press the FF or REW button to adjust the supply torque within the specified range. Press the DATA SET button. The adjusted data is stored in the memory and "5F:Ed.00 xx is displayed (where "xx" shows the adjusted data).
				 © Cassette torque meter: Take-up side, indicated value ⊕ Retaining screw of the take-up tension band ☆ 0.0035 N·m (36 +/-5 gf·cm) Take-up tension band holder	 Check that the take-up reel disk torque of the cassette torque motor is at the adjustment level. If the value is not within the adjustment lever range, remove the cassette torque meter an adjust the installation angle of the take-up tension band (see Fig. 2-9-1). Install the cassette torque meter again an press the REW button. Repeat steps 6 to 8 above to adjust within the correct adjustment range. Press the RESET button to terminate the adjustment.
		down O	up o	Screw	

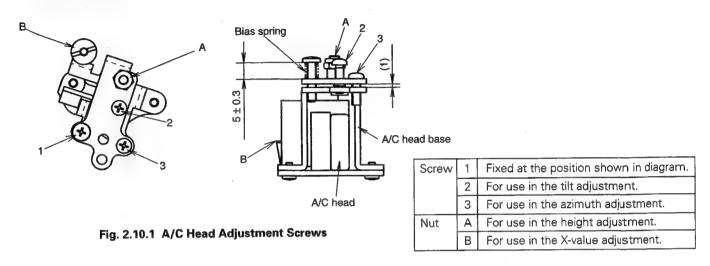
|--|

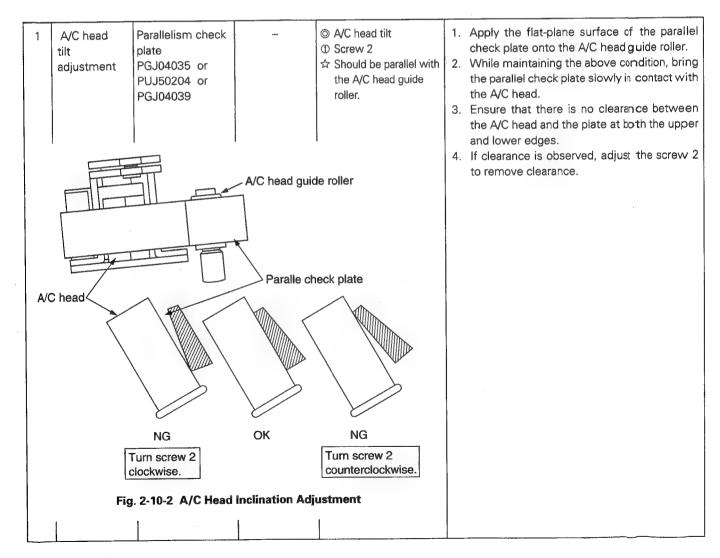


No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--	------	---	----------------------

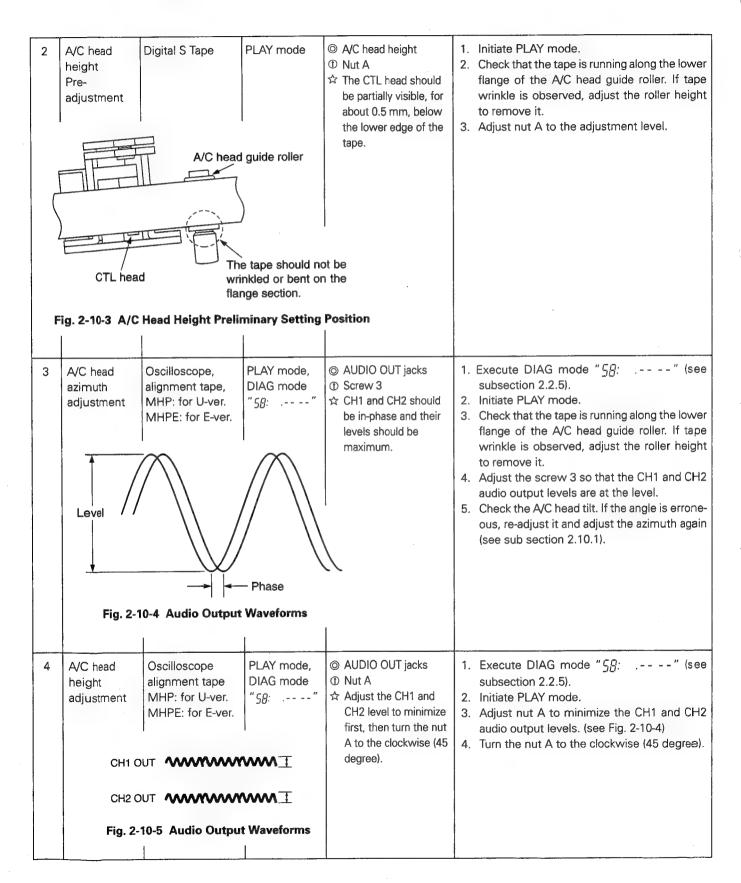
2.10 A/C HEAD ADJUSTMENTS

As the A/C head adjustments affect other adjustments in some degree, the adjustments should be repeated until all of the standards are met simultaneously.

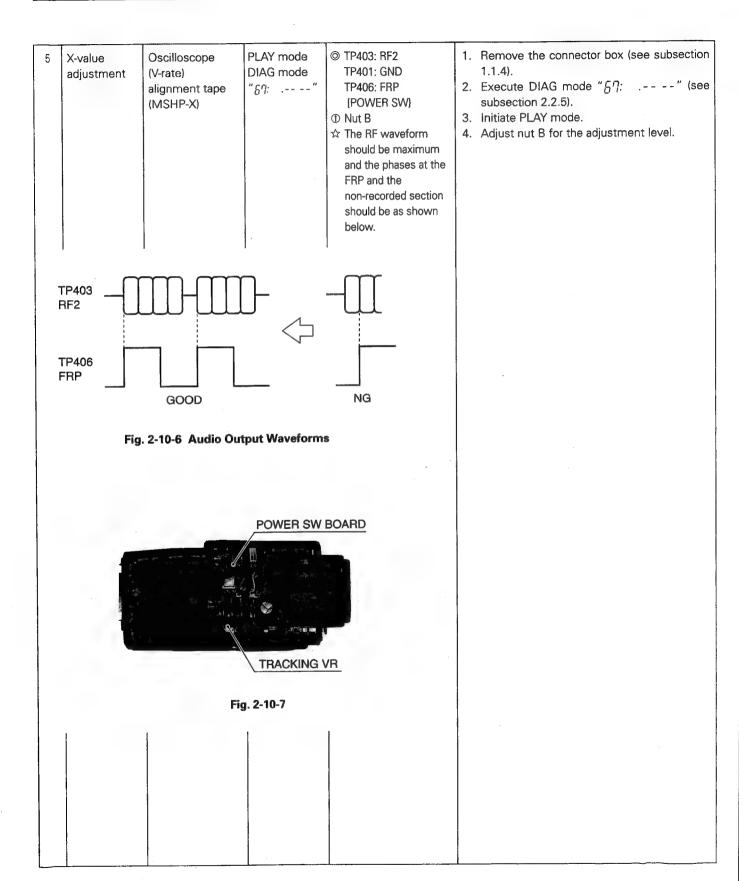




No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--	------	---	----------------------



No.	ltem	Measuring instrument & Input signals		Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	--	--	---	--



2.11 ADJUSTMENT OF INTERCHANGEABILITY

[CAUTION]

• Proceed to the following adjustment after having completed subsection "3.5 SERVO SYSTEM ADJUSTMENT" and subsection "2.9 REEL SERVO CIRCUIT ADJUSTMENT".

2.11.1 Interchange ability adjustment flowchart

Fig. 2-11-1 shows the flowchart of the interchange ability adjustment.

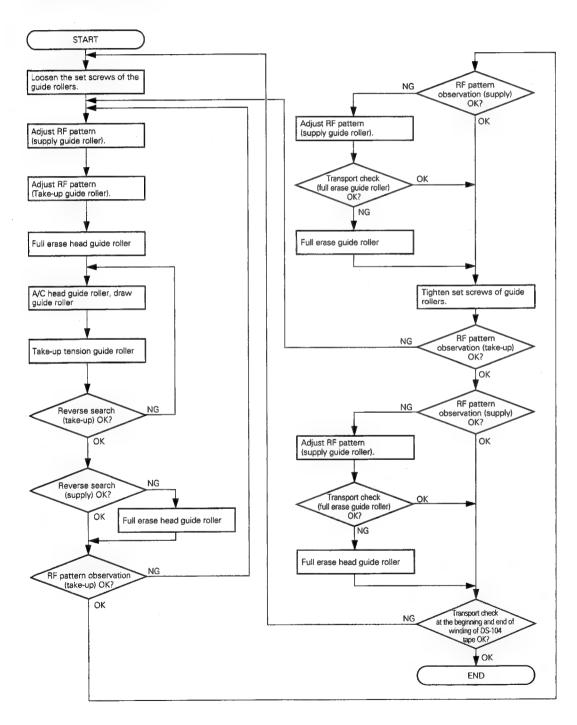
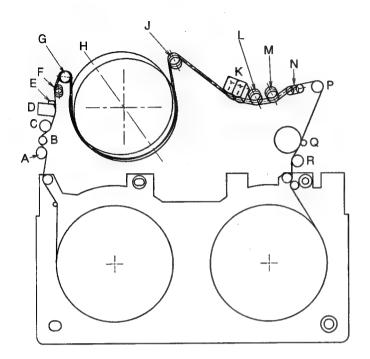


Fig. 2-11-1 Compatibility Adjustment Flowchart

2.11.2 Check of tape transport system



Symbol	Name	Restriction
А	1st guide roller	Non-regulation
В	Supply tension pole	Non-regulation
С	Full erase head guide roller	Tape's lower edge regulation
D	Full erase head	Non-regulation
E	Tape scraper	Non-regulation
F	Supply slant pole	Non-regulation
G	Supply guidé roller	Tape's upper edge regulation
Н	Drum assembly	Tape's lower edge regulation
J	Take-up guide roller	Tape's upper edge regulation
K	A/C head assembly	Non-regulation
L	A/C head guide roller	Tape's lower edge regulation
М	Middle guide roller	Non-regulation
N	Take-up slant pole	Non-regulation
Р	Draw guide roller	Tape's upper edge regulation
Q	Capstan	Non-regulation
R	Take-up tension roller	Non-regulation

Fig. 2-12-2

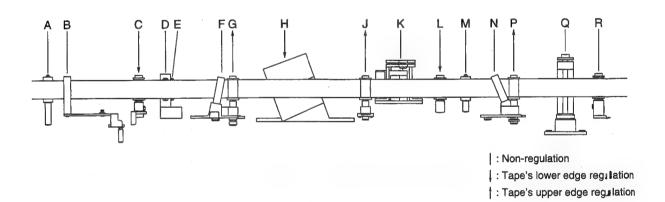
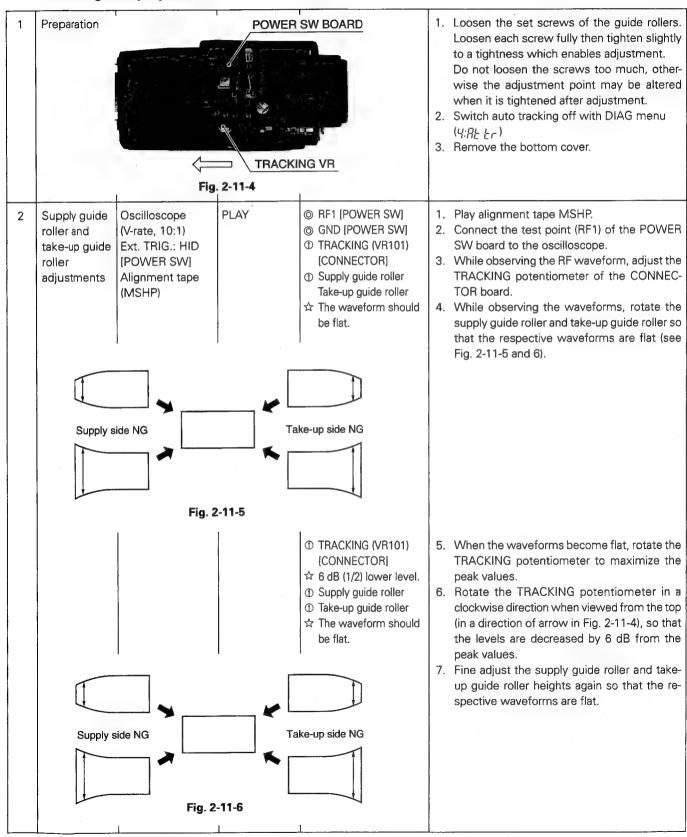


Fig. 2-11-3 View from Cassette Tape Insertion Side

No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--	------	---	----------------------

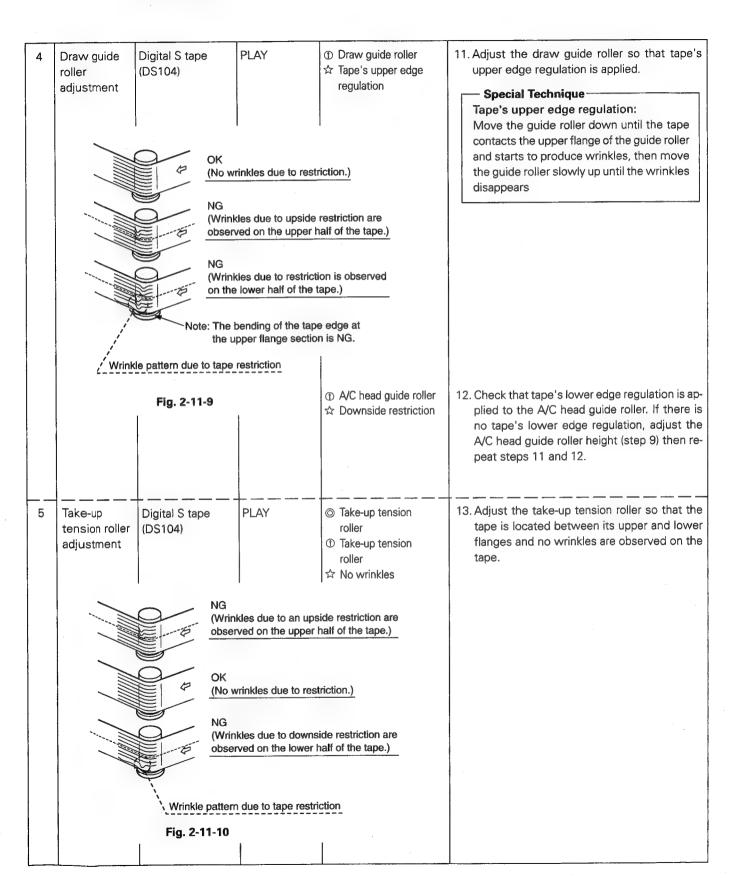
2.11.3 Interchangeability adjustment



No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
		NG (Windows on on Note: The Note: Th	rinkles due to doverved on the low rinkles due to resthe upper half of the bending of the	wnside restriction are er half of the tape.) triction are observed the tape.)	8. Adjust the full erase head guide roller so that tape's lower edge regulation is applied. Special Technique Tape's lower edge regulation: Move the guide roller up until the tape contacts the lower flange of the guide roller and starts to produce wrinkles, then move the guide roller slowly down until the wrinkles disappear.
	£= ii ii	Fig. 2-11-7			
				⊕ A/C head guide roller ☆ Tape's lower edge regulation	9. Adjust the A/C head guide roller so that tape lower edge regulation is applied (see Fig. 2 11-7 and "Special Technique - tape's lower edge regulation").
3	A/C head height preliminary adjustment	Digital S tape (DS104)	PLAY	① A/C head ☆ 0.5 mm	10. While visually observing the A/C head, adjustit so that the gap of the control head is visible by 0.5 mm below the lower edge of tape.

Fig. 2-11-8

No.	Item	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--	------	---	----------------------



No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	--------------------------------------	------	---	--

6	Check	Digital S tape	Search, REV	© RF1[POWER SW]	14. Initiate reverse search mode.
J	Ciredo	(DS104)		 ⊗ Between pinch roller and draw guide roller ⊕ Draw guide roller ☆ No twist and no wrinkles ⊗ Full erase head guide roller 	15. Check that the tape is not twisted between the pinch roller and the draw guide roller and that it is not wrinkled by the A/C head guide roller. If tape twist or wrinkles are observed, fine adjust the draw guide roller height then check the adjustments in steps 11 to 13.
				 ① Full eerase head guide roller ☆ No twist and no wrinklos 	16. Check that the tape is not wrinkled by the fu erase head guide roller. If tape wrinkles are observed, fine adjust th full erase head guide roller height.
		Alignment tape MSHP	PLAY	⊚ RF1 [power sw]	 17. Initiate PLAY mode. 18. Observe the RF waveform and check that is flat. 19. Check that the positive going of the RF waveform is normal between loading and play are between reverse search and play.
					If it is abnormal, restart adjustments from ste 7. 20. Tighten the set screws of the guide rollers 21. Perform the same checking as for steps and 19.
		Digital S tape (DS104)			22. Using the digital S tape (DS104), initiate plat the beginning of winding, initiate rever search at the end of winding, and check the tape is not twisted or wrinkled by t guide rollers. If tape twist or wrinkles are observed, reviet the adjustments from step 1 and repeat t required adjustments.

No.	ltem	Measuring instrument & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	--------------------------------------	------	---	----------------------

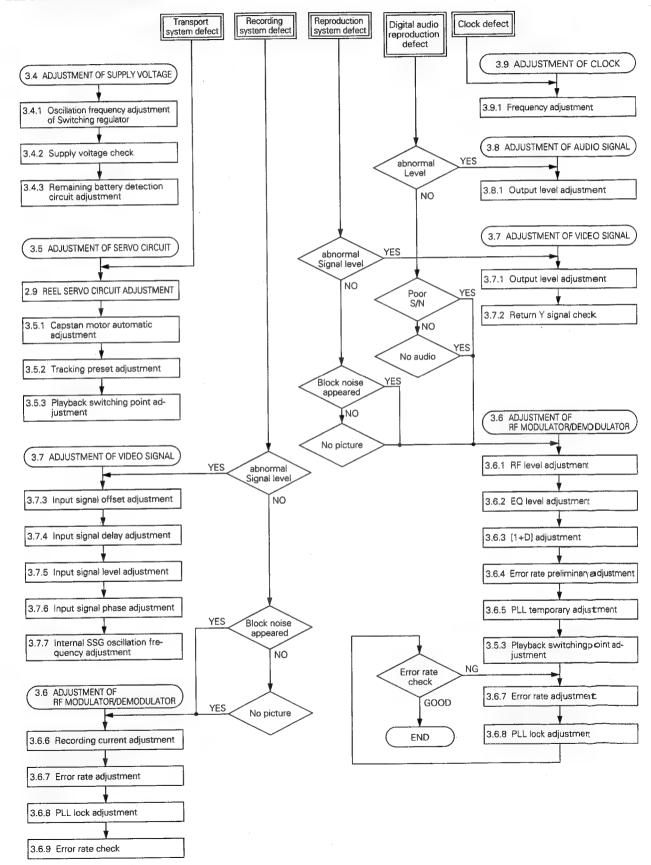
2.12 CHECK OF LINEARITY

[CAUTION] • Proceed to the linearity check after having completed the mechanism adjustments and the tracking preset adjustment.

PC. For the operating instructions, ref struction manual provided with the 6. Check that the measured linearity more than 5 micro. If it is more than 5 µm, perform to tion "2.11 ADJUSTMENT O	1 Connection	PC A/D board: KLJ0089 RS-232C connection cable: KLJ0123-2 Alignment tape "MSHP"	DIAG mode	© TRM [POWER SW] © HID [POWER SW]	 Connect the cables (KLJ0123-2) provided with the A/D board (KLJ0089) to the test points TRM (signal) and HID (trigger) on the POWER SW board. For the connection of other cables, refer to the instruction manual provided with the linearity check PC. Boot the PC and set the BR-D40 to the DIAG mode. Load alignment tape "MSHP".
	2 Check			☆ No more than 5 μm	For the operating instructions, refer to the instruction manual provided with the A/D board. 6. Check that the measured linearity value is no more than 5 micro. If it is more than 5 μm, perform the subsection "2.11 ADJUSTMENT OF INTERCHANGEABILITY" again, and then measure

SECTION 3 ELECTRICAL ADJUSTMENTS

3.1 ELECTRICAL ADJUSTMENT FLOWCHART



3.2 REQUIRED MEASURING INSTRUMENTS FOR ADJUSTMENTS, STANDARD SETUP

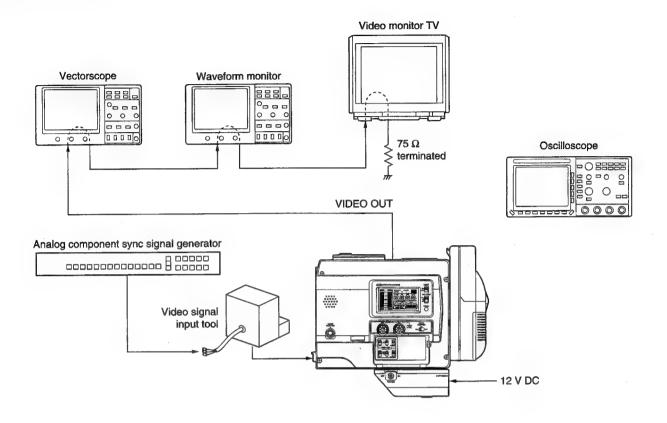
3.2.1 Required measuring instruments for adjustments

Condition	Instrument	Condition
Capable of measuring 100 MHz or higher bands and calibrated.	Vectorscope	Must be calibrated, and capable of measuring 0-setup signals (see the subsection
Capable of measuring 300 MHz or higher		"3.4").
bands and calibrated. (This oscilloscope is	Audio tester	Must be calibrated.
used in Section 3.6, "RF Modulator/	Spectrum analyzer	Must be calibrated. (This is not required
Demodulator System Adjustment".)	·	when the BR-D80 or BR-D85 is available.)
Readable in 8 or more digits. Constancy of		
0.1 ppm/1 x 10 ⁻⁷ or more at 0°C to 40°C.	,	
Input impedance of 10 $M\Omega$ ohm or more,		
and calibrated.		
	Capable of measuring 100 MHz or higher bands and calibrated. Capable of measuring 300 MHz or higher bands and calibrated. (This oscilloscope is used in Section 3.6, "RF Modulator/Demodulator System Adjustment".) Readable in 8 or more digits. Constancy of 0.1 ppm/1 x 10^{-7} or more at 0° C to 40° C. Input impedance of 10 M Ω ohm or more,	Capable of measuring 100 MHz or higher bands and calibrated. Capable of measuring 300 MHz or higher bands and calibrated. (This oscilloscope is used in Section 3.6, "RF Modulator/Demodulator System Adjustment".) Readable in 8 or more digits. Constancy of 0.1 ppm/1 x 10-7 or more at 0°C to 40°C. Input impedance of 10 MΩ ohm or more,

3.2.2 Required instruments for adjustments

<u> </u>	
1 12 V DC power supply	5 Video signal input tool: KLJ0126
DC regulated power supply (output current 4 A or more)	
2 Video monitor TV	6 Alignment tapes
	MSHP-X: For use in tracking preset adjustment. MSHV-1: For use in RF modulator/demodulator system adjustments. MS-1: For use in video system adjustments (NTSC). MS-2: For use in video system adjustments (PAL).
3 Waveform monitor (WFM)	7 Digital S tape
	For use in self-recording/playback. (DS-104) 8 BR-D80 or BR-D85
2 Analog component video signal generator Capable of generating the analog component signals mentioned in subsection "3.3.3 Component signals required for video system adjustments". < Example: TSG-300 (Textronix) or equivalent >	A spectrum analyzer is required if the above mentioned model is not available.

3.2.3 Standard setup



3.2.4 DIAG mode selection procedure

- 1) While holding the ADVANCE button depressed, press and hold the MENU button for more than 3 seconds.
- 2) Press the GROUP button to select group 7 (from "58:" to "85:").
- 3) Press the ITEM button to select the specified menu.
- 4) Press the SELECT button to execute the item. See the subsection "1.3.2" for details.

3.3 BEFORE PROCEEDING TO ADJUSTMENT

3.3.1 Precautions

Before proceeding to any electrical adjustment, it is required to confirm without fail that the objective item (function or part) is out of order. Moreover, for the item that needs exact mechanical adjustment prior to electrical adjustment, make sure that it is mechanically normal first and then proceed to electrical adjustment.

Start electrical adjustment at least 10 minutes after the VCR has been turned on.

Regarding an oscilloscope to be used for measurement, use the 10:1 probe.

3.3.2 Alignment tape specifications

MSHP-X

Video Signal	Audio Signal	Time (min.)	Applications
Color bar (1 track per frame does not contain		50	X-value adjustment and tracking preset adjustment.
video.)			

MSHV-1

Video Signal	Audio Signal	Time (min.)	Applications
Motion picture	Music suund	50	Tracking preset adjustment Playback switching point adjustment RF modulator/demodulator system adjustments

MS-1 [NTSC]

No.	Video Signal	Audio Signal	Time (min.)	Applications
1 2 3	Color bar Pulse & bar Multi-burst	1 kHz/–20dBFs	10 5 5	Video system adjustments Audio system adjustments
4	Bow-tie		5	

MS-2 [PAL]

No.	Video Signal	Audio Signal	Time (min.)	Applications
1 2	Motion picture Colour bar	Music sound	15 10	Video system adjustments
3	Pulse & bar	1 kHz/-20dBFs	5	
5	Multi-burst Bow-tie		5	Audio system adjustments

3.3.4 Note on the vectorscope with the 0-setup video signal measuring capability (NTSC Only)

The component signal to be applied for the electrical adjustments should be a signals with setup. However, the VBS output from the BR-D40 does not include the setup component because it has a simplified output. Therefore, it is required that the vectorscope used in the measurement is capable of measuring signals without setup. The following two types of vectorscope can be used in the measurement.

- 1. A vectorscope which uses a switch for setup switching.
- 2. A vectorscope which can vary the gain on the CRT screen.

Each type of vectorscope should be used properly according to the intended usage. For details, refer to the instruction manual of the instrument.

3.4.1 Vectorscope equipped with a switch

Set the switch to the 0 setup position before proceeding to the measurement.

3.4.2 Vectorscope with variable CRT gain

When using this type of vectorscope, notice the burst display on the CRT. It can be used when the burst section is as shown in Figure 3-4-1.

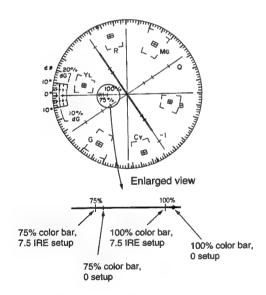
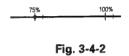


Fig. 3-4-1

- (1) First, ensure that the burst level is 286 mVp-p using an oscilloscope.
- (2) Apply the video signal to the vectorscope and terminate with 75Ω .
- (3) Check that the burst dot is located at the 75% color bar, 7.5 IRE setup position.



(4) Adjust the vectorscope's gain so that the burst dot is aligned with the small indication point to the right of the 100% position

(This is because this adjustment for a 75/7.5/75/7.5 color bar signal.)



Fig. 3-4-3

(5) Without changing the conditions above, adjust the gain for all the dots(R,G,B,Mg,Cy,Yl)so that they come inside the points.

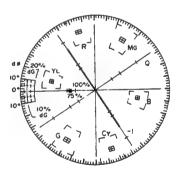
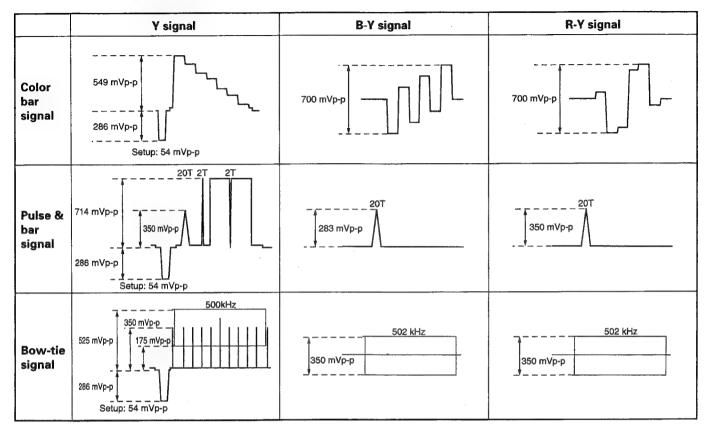
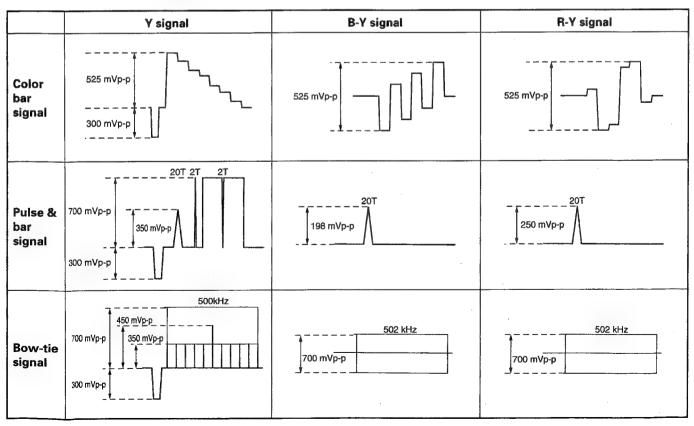


Fig. 3-4-4

3.3.3N Component signals required for video adjustment [NTSC]



3.3.3P Component signals required for video adjustments [PAL]



No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---------------------------------------	------	---	----------------------

3.4 ADJUSTMENT OF SUPPLY VOLTAGE

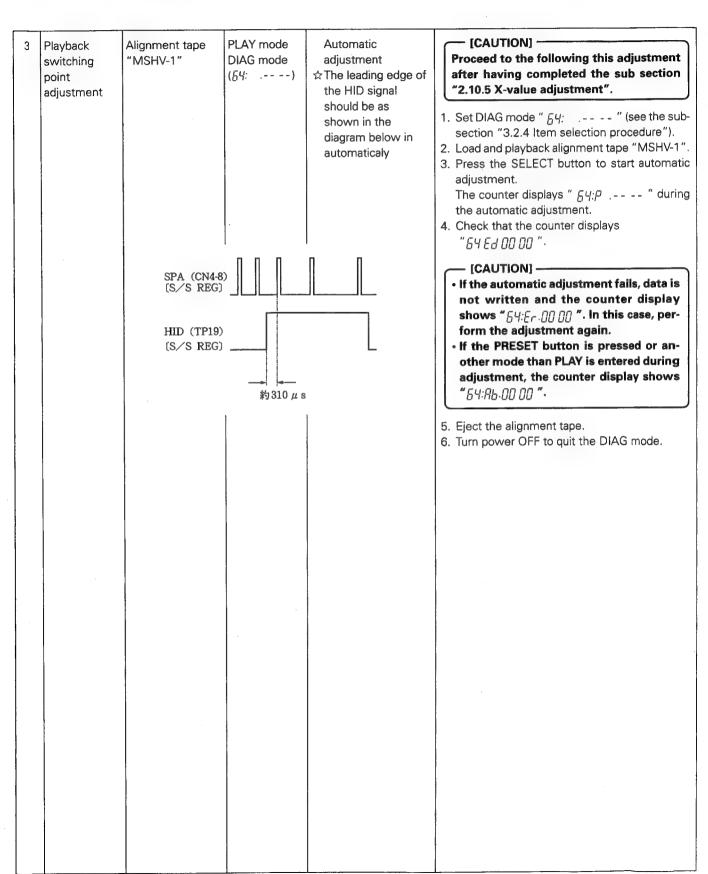
1	Oscillation frequency adjustment of Switching regulator	Frequency counter	STOP	© TP501 [S/S REG] © GND TG2 -① (VR501) (S/S REG) ☆ 100kHz	Put the VCR in stop mode. Adjust VR to obtain the specified frequency at the measuring point.
2	Supply voltage check S/S REG BOA	Digital voltmeter	STOP	© TP502 [S/S REG]	1. After adjustment of subsection "3.4.1 oscillation frequency adjustment of switch regulator", confirm that the VCR is in stop mode. 2. Confirm that the voltage at each measuring points meet the specified level.
3	Remaining battery detection circuit adjustment (automatic adjustment)	+12 V ± 0.03 V ↓ DC INPUT	No cassette, DIAG mode (BE:)	Automatic adjustment	 Input +12 V +/-0.03 V (4 A or more) to the DC INPUT connector. Set the VCR to the no cassette condition. Set DIAG mode "86:" (see the subsection "3.2.4"). Press the SELECT button to start automatic adjustment. Check that the counter displays "85 Ed 00 xx". Turn power OFF to quit the DIAG mode.

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---------------------------------------	------	---	----------------------

3.5 ADJUSTMENT OF SERVO CIRCUIT

1	Capstan motor automatic adjustment		No cassette DIAG mode (5d:)	Automatic adjustment Adjust the capstan FG (TP13 and TP14 on the [S/S REG]) duty to the 50% in automaticaly. CPU measures FG level (Pin 74 of IC14 on the [S/S REG]) just before the capstan motor is stopped.	 Set the VCR to the non-cassette condition. Set DIAG mode "5d:" (see the section 3.2.4). Press the SELECT button to start automatic adjustment. The counter displays "5d:p" during the automatic adjustment. Check that the counter displays "5d:Ed:0000".
2	Tracking preset adjustment	X value alignment tape "MSHP-X"	PLAY mode, DIAG mode (68:)	Automatic adjustment ☆ RF ENV (TP15) [S/S REG] envelope should be maximized as a result of the automatic adjustment.	Proceed to the following adjustment after having completed the X-value adjustment. 1. Set DIAG mode "58:" (see the subsection "3.2.4 Item selection procedure"). 2. Load and playback X value alignment tape "MSHP-X". 3. Press the SELECT button to start automatic adjustment. The counter displays "58:P" during the automatic adjustment. 4. Check that the counter displays "68:Ed.00.00". [CAUTION] If the automatic adjustment fails, data is not written and the counter display shows "58:Er.00.00". In this case, perform the adjustment again. If the PRESET button is pressed or another mode than PLAY is entered during adjustment, the counter display shows "68:86-00.00". 5. Eject the X value alignment tape. 6. Perform subsection "3.5.3 Playback switching point adjustment".

No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

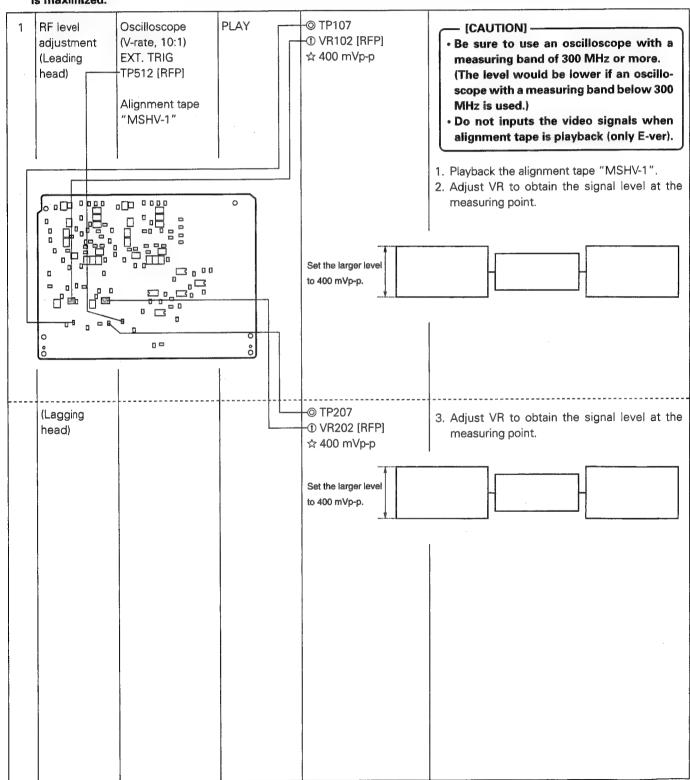


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

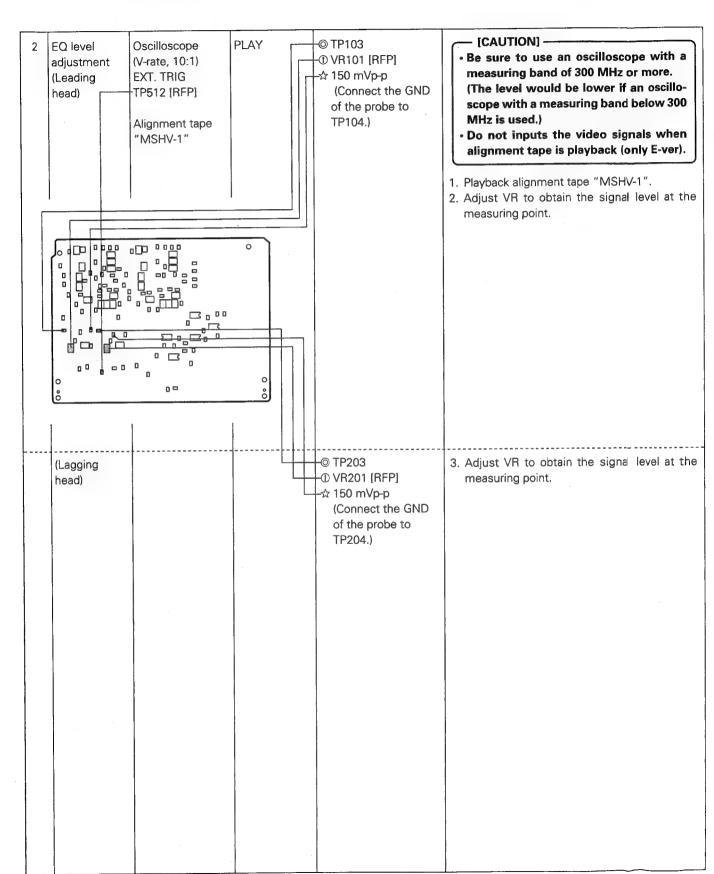
3.6 ADJUSTMENT OF RF MODULATOR/DEMODULATOR

[CAUTION]

- Switch auto tracking OFF. (DIAG menu " 4:81: 1-7")
- Before proceeding to the following adjustments, playback the alignment tape "MSHV-1" and adjust the TRACKING potentiometer (in the connector box) so that the amplitude of the RF waveform at TP207 on the RFP (RF Process) board is maximized.



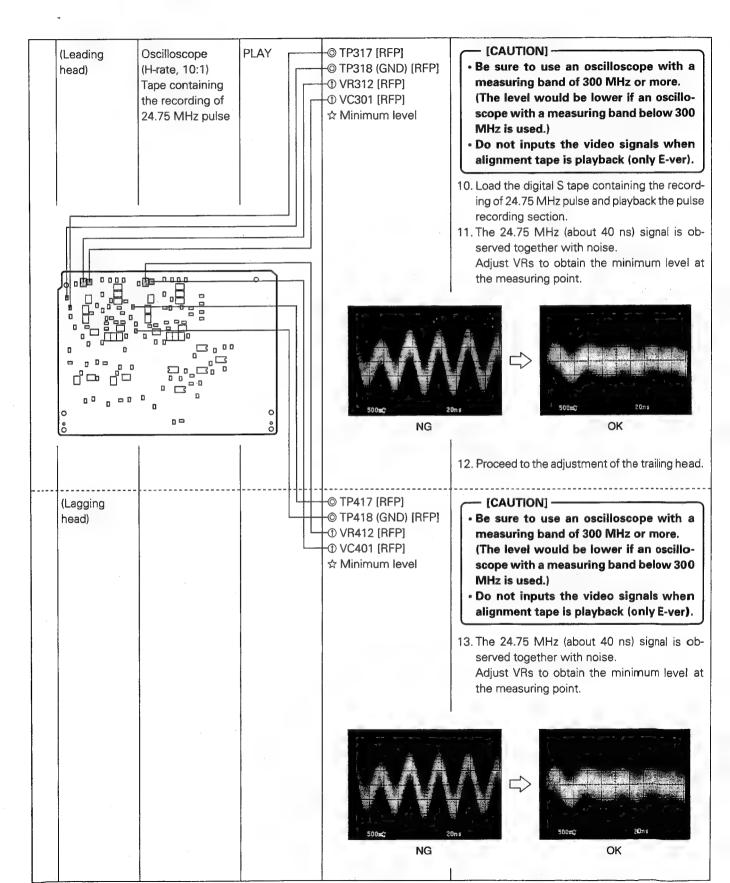
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	---	------	---	--



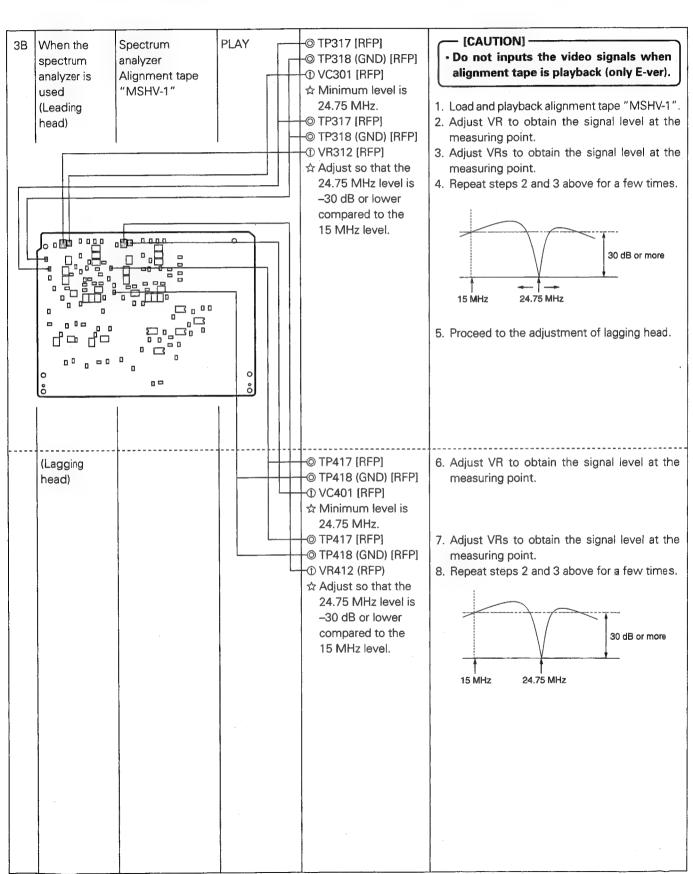
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

3 [1+D] adjustment	• This adjustment requires the use of the BR-D80, the BR-D85 or a spectrum analyzer. Therefore, the adjustment procedure in the case of the BR-D80 or BR-D85 is as described in subsection 3A and in the case when a spectrum analyzer is used as described in subsection 3B. Select either subsection according to the available instruments.					
3A When the BR D80/BR-D85 is used (Preparation)	BR-D80/BR-D85 mode Menu switch "No. 111", internal color bar Test mode (6F 00 00) REC mode	PREPARATION Create a tape on which a 24.75 MHz pulse is recorded by using the following method. Do not inputs the video signals when alignment tape is playback (only E-ver). Press the MENU button of the BR-D80 or BR D85 to select "No. 111", then select "INTER NAL COLOR BAR" and press the SET button 2. Turn power OFF then turn power ON again in the test mode. Note A) Turn the power switch to on. B) Press the "COUNTER RESET", "FF" and "REW" buttons at the same time within 2 second after counter display "□□□□□" is appeared. 3. Press the MENU or SET button so that the counter displays "□□□□□". 4. Press the COUNTER RESET button and check that the counter displays "□□□□□". 5. Load a digital S tape. 6. Press the REC and PLAY buttons to start recording. 7. After recording for a few minutes, press the STOP button. 8. Press the COUNTER RESET button and check that the counter displays "□□□□". 9. Eject the digital S tape. This tape contains the recording of the 24.75 MHz pulse.				

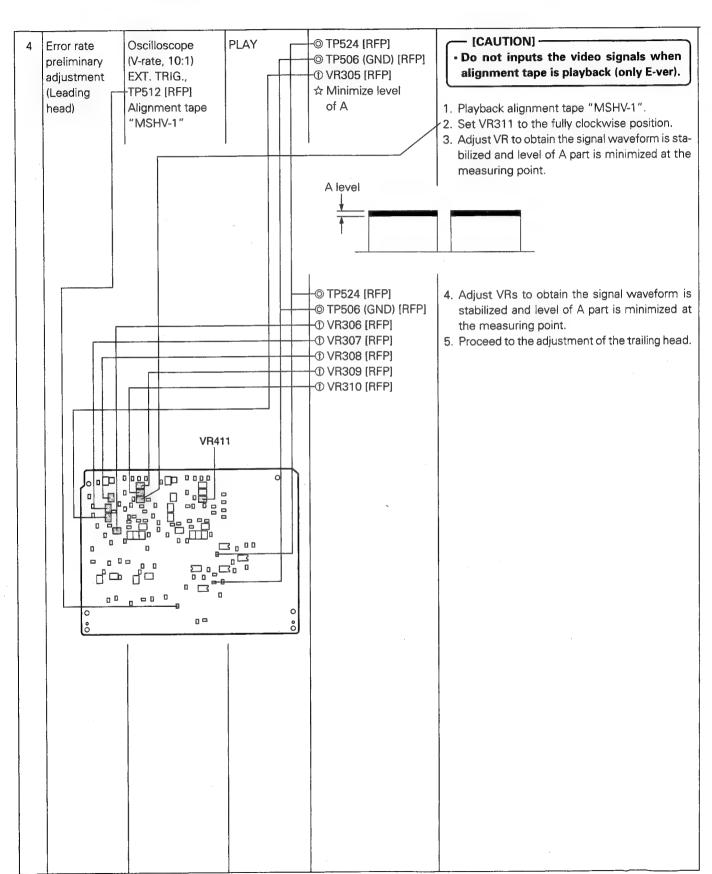
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------



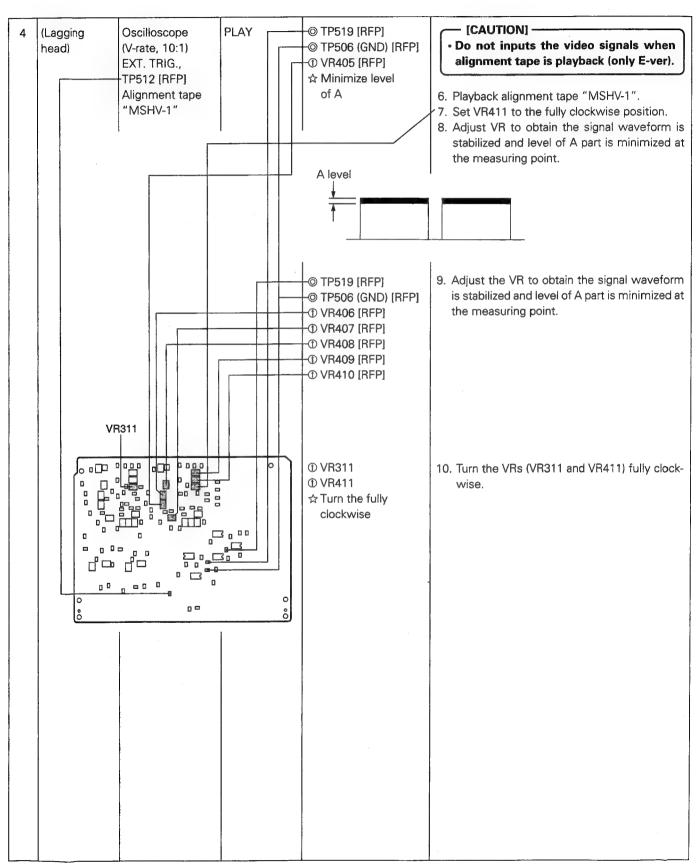
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure	
-----	------	---	------	---	----------------------	--



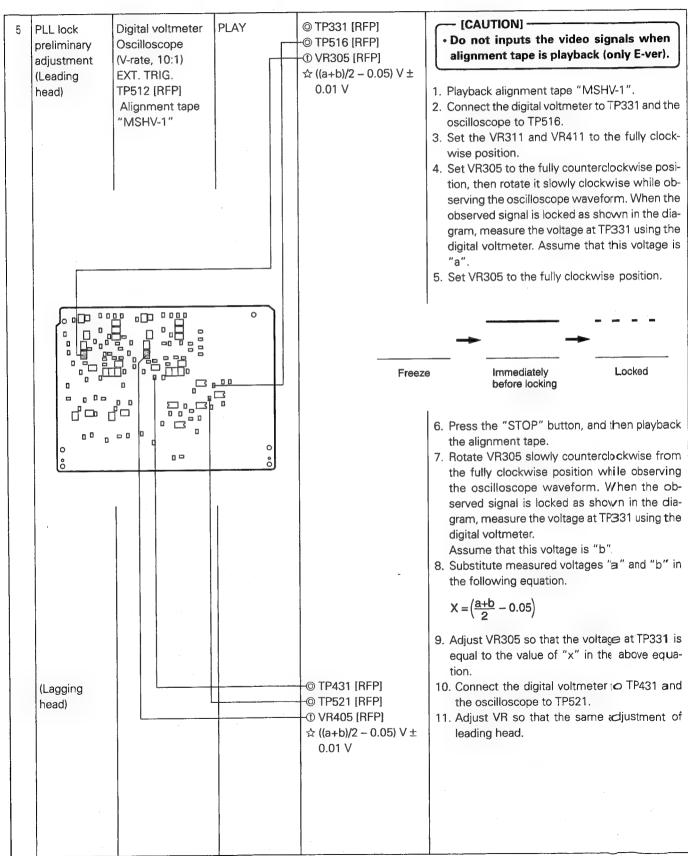
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------



No.	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	---------------------------------------	------	---	----------------------



No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---------------------------------------	------	---	----------------------



No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

[CAUTION] Before proceeding to Section 3.6.6, "Recording current adjustment" and Section 3.6.7, "Error rate adjustment", complete 2.0.0, "Switching point adjustment" and switch auto tracking ON.

6 Recording current adjustment Digital S tape STOP mode DIAG mode adjustment

- The automatic adjustment is executed in the following sequence.
- A) It so recorded the signal 4 times that recording current shifted 16 steps (1 step is about 4 second) (the total required time is about 4 minutes). During this the display shows

- B) Tape is rewound to the recording start point in REV search mode. The display shows " 72:P .20 00 " during this.
- C) The VCR enters PLAY mode and detects the playback level of the recorded section. Then the optimum playback level of each head (CH1 leading, CH2 trailing) is identified and the recording currents are determined based on this analysis (the required time is about 4 minutes). During this operation, the display shows

data 1: The head being detected (1 to 4). data 2: Hex data between 00H and FFH. When the playback levels of all the steps have been detected and the optimum values are identified, the displayed data changes.

D) When the optimum values of all the heads have been identified, the VCR enters STOP mode and automatic adjustment is completed.

- 1. Set DIAG mode " 7,2: .-- -- " (see the subsection "1.3.2 Item selection procedure").
- Load a digital S tape and put the VCR in stop mode.
- 3. Press the SELECT button to start automatic adjustment.
- 4. Check that the counter displays "72:Ed-00 00 ".
- 5. Quit the DIAG mode.
- Proceed to sub section "3.6.8 Error rate adjustment".

- [CAUTION] -

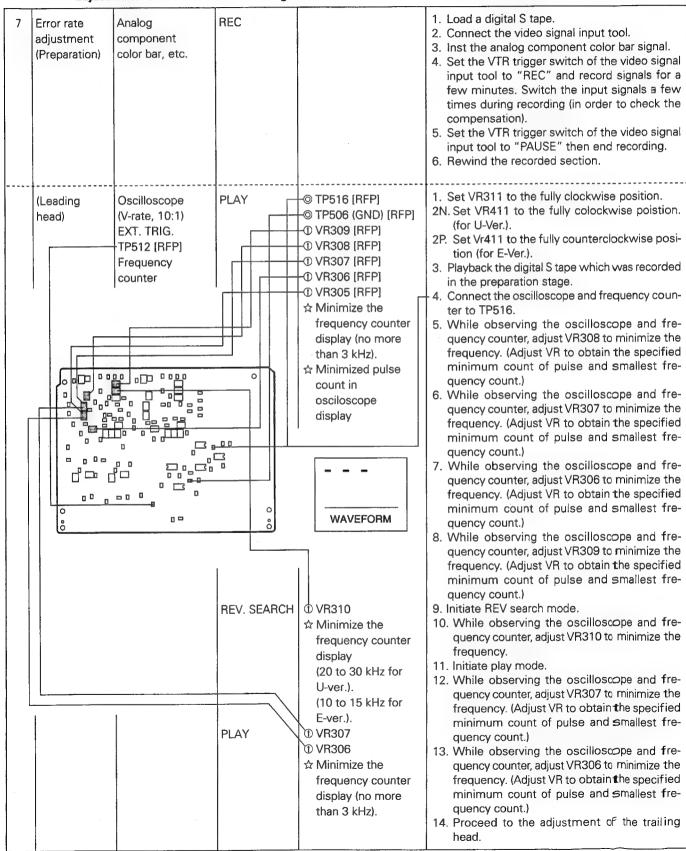
Counter display " ?2:Er. [][[][" appears for one of the following reasons;

- a) the PRESET button is pressed during operation; or
- b) the VCR mode is changed; or
- c) the tape end is detected; or
- d) the adjustment is defective.

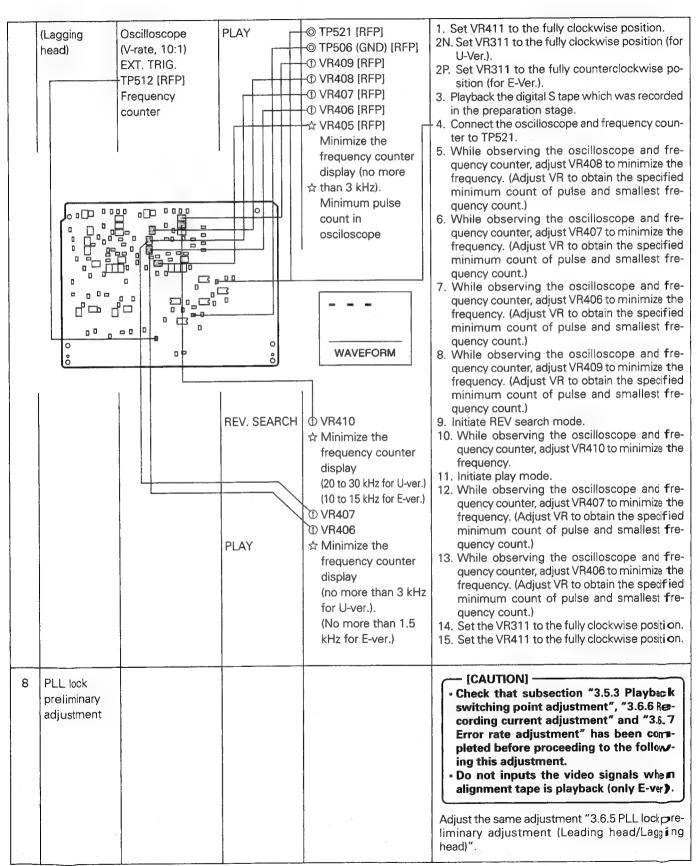
If the reason is a) or b), restart adjustment from the beginning. If the reason is c), rewind tape and restart adjustment. If the reason is d), perform the adjustments in subsection "3.6.1" to "3.6.5" again.

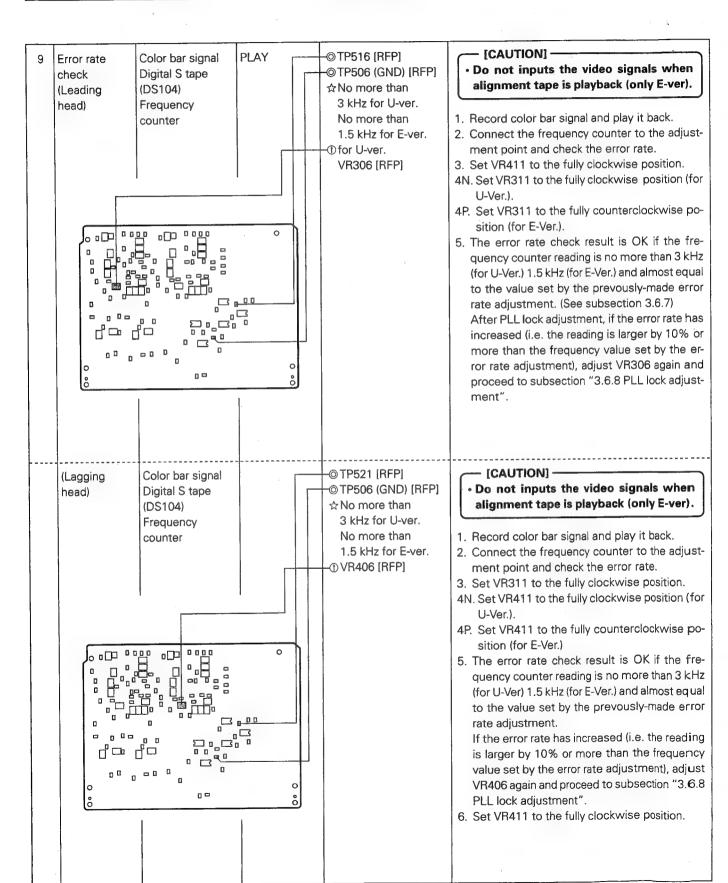
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

[CAUTION] Before proceeding to subsection "3.6.7 Error rate adjustment", complete "3.5.3 Playback switching point adjustment" and switch auto tracking ON.



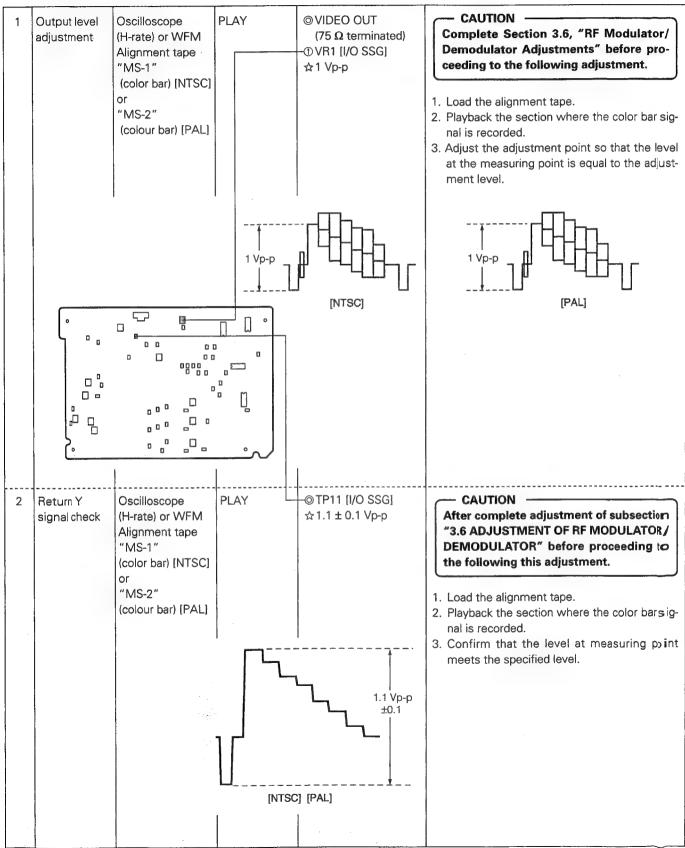
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------



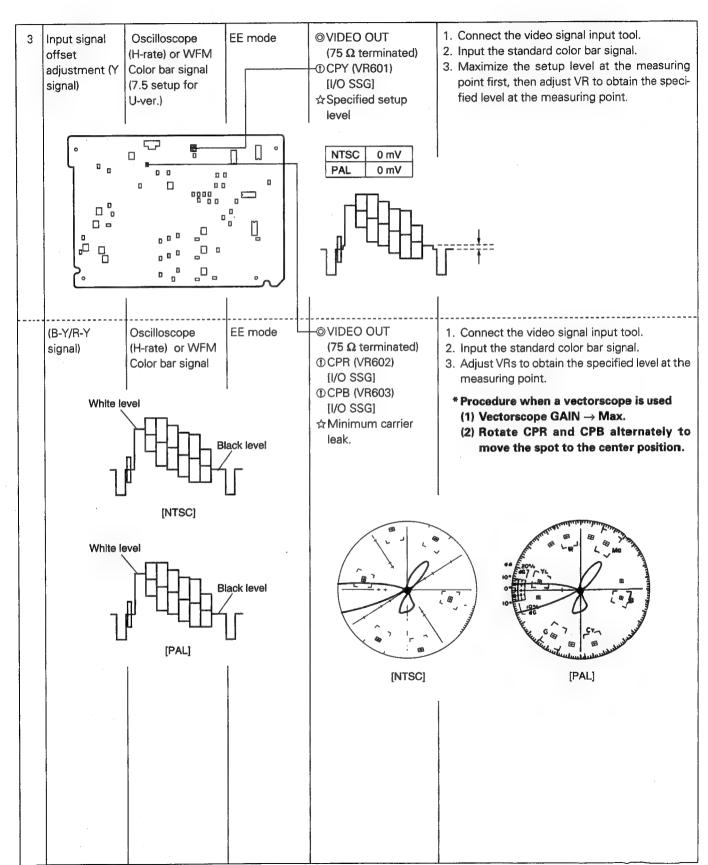


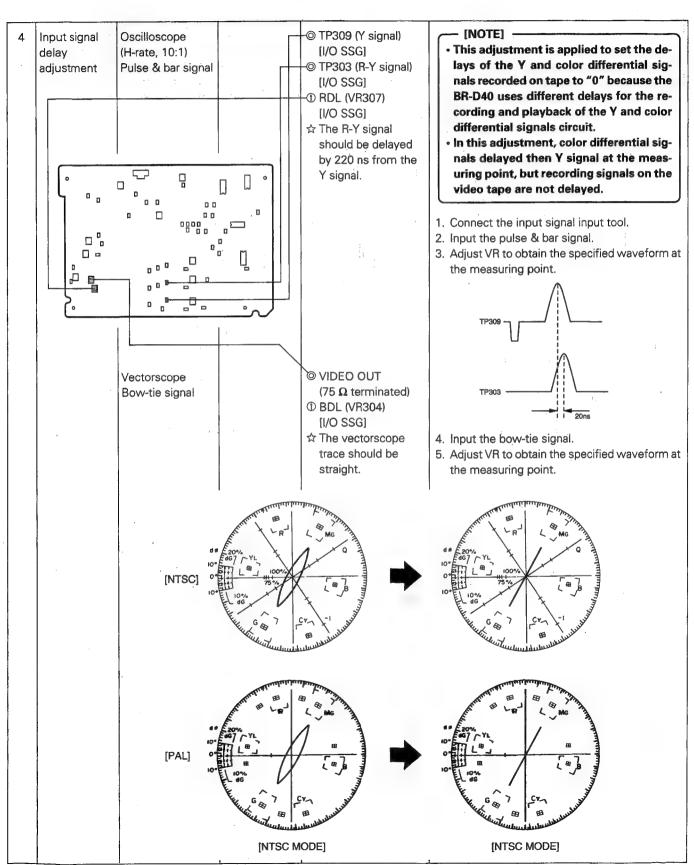
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⑪) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

3.7 ADJUSTMENT OF VIDEO SIGNAL

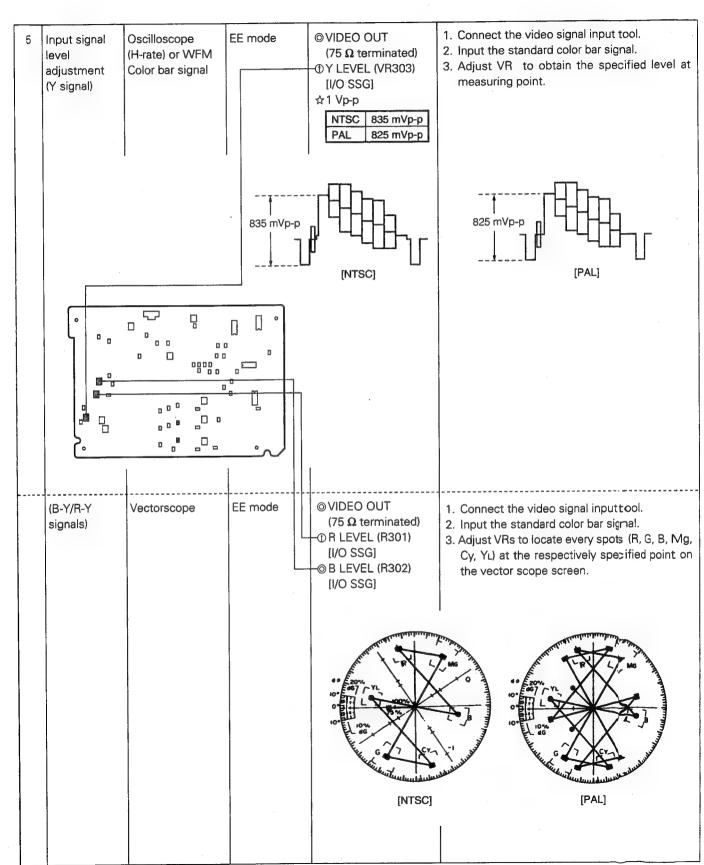


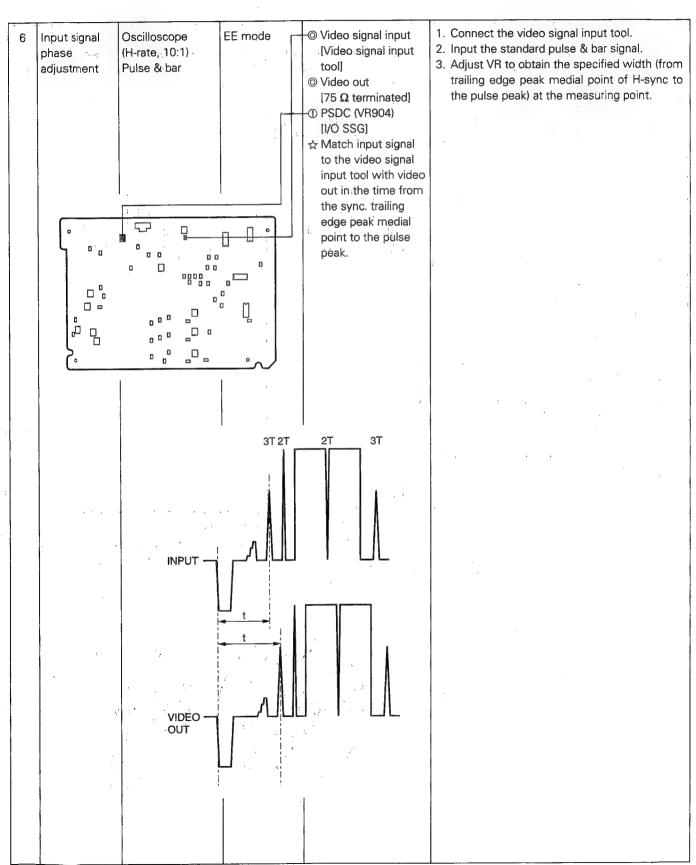
No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---------------------------------------	------	---	----------------------



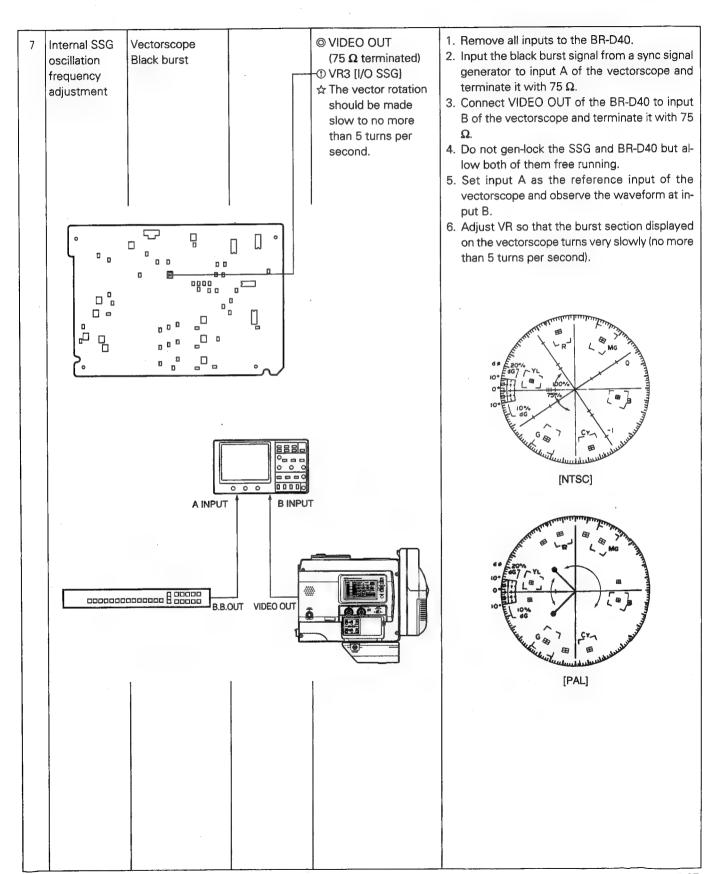


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------



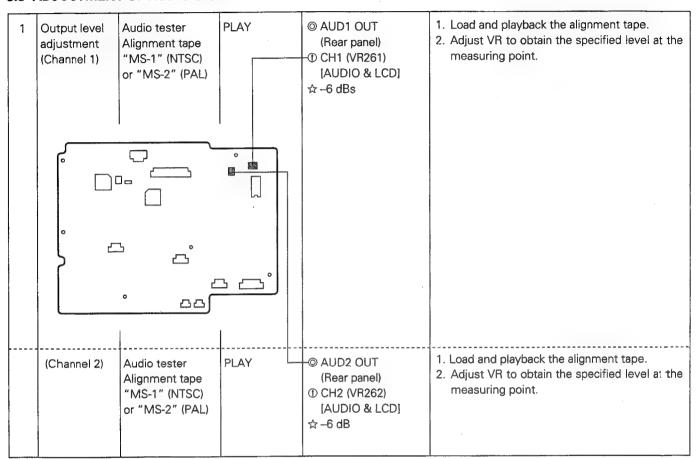


No.	Item	Measuring instruments & Input signals	Mode	Measuring point (⊚) Adjustment parts (⊕) Adjustment level (☆)	
-----	------	---	------	---	--

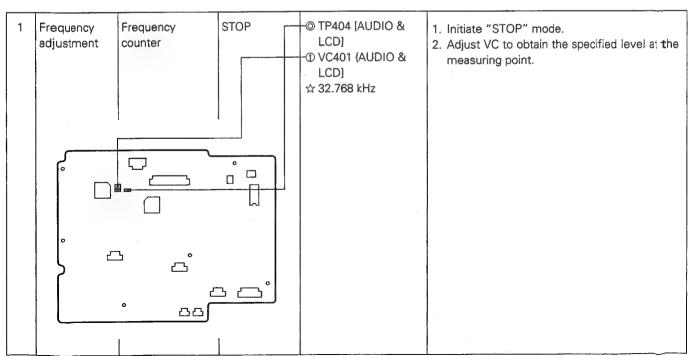


No.	ltem	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
-----	------	---	------	---	----------------------

3.8 ADJUSTMENT OF AUDIO SIGNAL



3.9 ADJUSTMENT OF CLOCK



SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of wiring

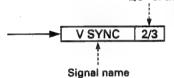
As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

1) Circuit diagram divided into two or more sections:

Board	Board Name	Number of divided sections
01 02 03 04 05 06	AUDIO & LCD PV PROCESS I/O SSG RFP S/S REG PRE/REC OVERALL	1/4 - 4/4 1/7 - 7/7 1/3 - 3/3 1/5 - 5/5 1/3 - 3/3 1/3 - 3/3 1/2 - 2/2

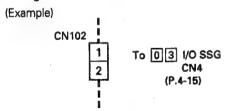
 Indication of wiring which extends to another section: (Example)

This indicates that wiring extends to "2/3" of the diagram.



In the above case, the end of the wiring is connected to the "V SYNC" on the 2nd section of the diagram.

2. Wiring of connector



In the above example, CN102 is connected with CN4 on 0 3 I/O SSG board.

3. Signal flow on the diagram

The following allow marks indicate the specified signal paths respectively.

: Recording or EE signal path

: Playback signal path

: Recording and Playback signal path

4. Measurement of voltage

Measured by digital voltmeter in REC mode. Volue in () is indicated only in the case PB voltage is different from that in REC mode.

5. Unit of value

Unless otherwise specified:

- 1) Resistance is in Ω (1/6 W)
- 2) Capacitance in µF
- 3) Inductance in µH
- 4) The \triangle symbol and screened parts in () are important for safety assurance. When replacing them, use specified parts.

6. Others

In regard of a board assembly whose circuit is composed of multilayered board patterns such as 4- or 6-layered patterns, board patterns of the power supply lines and grounding lines are omitted in this section.

Note: For detail of each electrical part, refer to Section 6 "ELECTRICAL PARTS LIST" by it symbol number.

4.1 REPLACING SUBMINATURE "CHIP" PARTS

1. General description

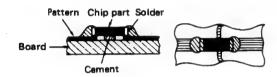
Some of resistors, variable resistors, shorting jumpers (0 Ω resistors), ceramic capacitors, transistors, diodes are chip parts. Those removed once cannot be used again.

2. Replacement of chip parts

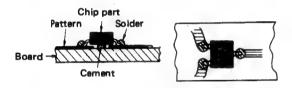
Replacement of chip parts should be performed as follows. Use a soldering iron (17 W for 260-30°C approx.) that has sharp-pointed tip and high performance in insulation.

It is more convenient to use a soldering iron with solder absorber (55 W approx.).

- (1) Soldered condition of chip parts
- Resistors, capacitors, etc.



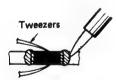
• Transistors, diodes, etc.



- (2) Removing of chip parts
- Resistors, capacitors, etc.
 - i) Melt solder at a side.



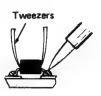
ii) Holding the chip with tweezers, melt solder at the other side.



iii) Take off the chip in twisting and sliding motion.



- Transistors, diodes, etc.
 - i) Melt solder at the side of single lead.



ii) Lift the unsolderd side upwards.



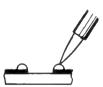
iii) Simultaneously melt solder at two leads of the other side and pull up the chip.



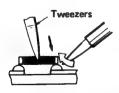
(3) Preheating and soldering of chip parts

Except transistors, make sure to preheat all chip parts, capacitors in particular, with a hot wind of 150°C approx. (of a hair dryer, etc.) for 2 minutes just before soldering, and immediately solder by a soldering iron of approx. 30 W.

- (4) Attaching of chip parts
 - i) Heap up a proper amount of solder beforehand.



ii) Holding down a new chip by tweezers, solder it to the board by a soldering iron to melt solder from its lower part to the upper part (in the direction shown by a big arrow).



Note: • Don't heat chip parts over 3 seconds.

- Don't rub electrodes.
- Don't use chip parts which were once removed.
- No cement is required.

3. Shapes of stransistors & diodes

• Transistors

- 118113131013	
DTA124EK DTA144EK DTC114EK DTC114YK DTC144EU FMC2 FMG1 FMG2 FMS1 FMW1 IMX1 IMZ1 IMZ2 XN4504 XN6401 2SA1022C 2SB709 2SC2412K 2SC2778 2SC2873 2SC4081 2SD601/A 2SD602/A 2SJ278S 2SJ279S 2SK621	2 1 1 15 3 3 4 5 6 7 8 6 8 8 9 9 9 9 9 9 9 16 9 9 9 17 10 10 10 10 10 10 10 10 10 10 10 10 10
DANISOSK	11

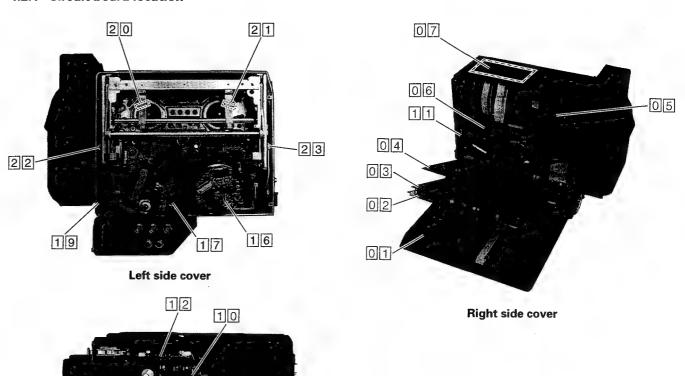
2SJ279S 17 2SK621 10 Diodes DAN202K 11 DAP202K 12 DA204K 14 MA28WA 13 MA3056 13 MA3075 13

4	9	14
50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		C1 A2 C2 A1 C2
5	10	15
500000000000000000000000000000000000000	G S R1 R2 S O	5 0 0 1 4 0 0 2
6	11	16

B OUT OUT IN O R1 GND	6 0 1 2 3 4 0 3 9	CATHODE	
2	7	12	17
B C OUT	3 2 1 0 2 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ANODE	
3	8	13	18
2 3 4 5 5 4 5 3 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		NO N	6 ° 1 5 ° 2 4 ° 3

4.2 INDEX TO PAGES OF MAIN BOARDS AND CIRCUIT BOARD LOCATION

4.2.1 Circuit board location



4.2.2 Index to pages of main boards

Bottom cover

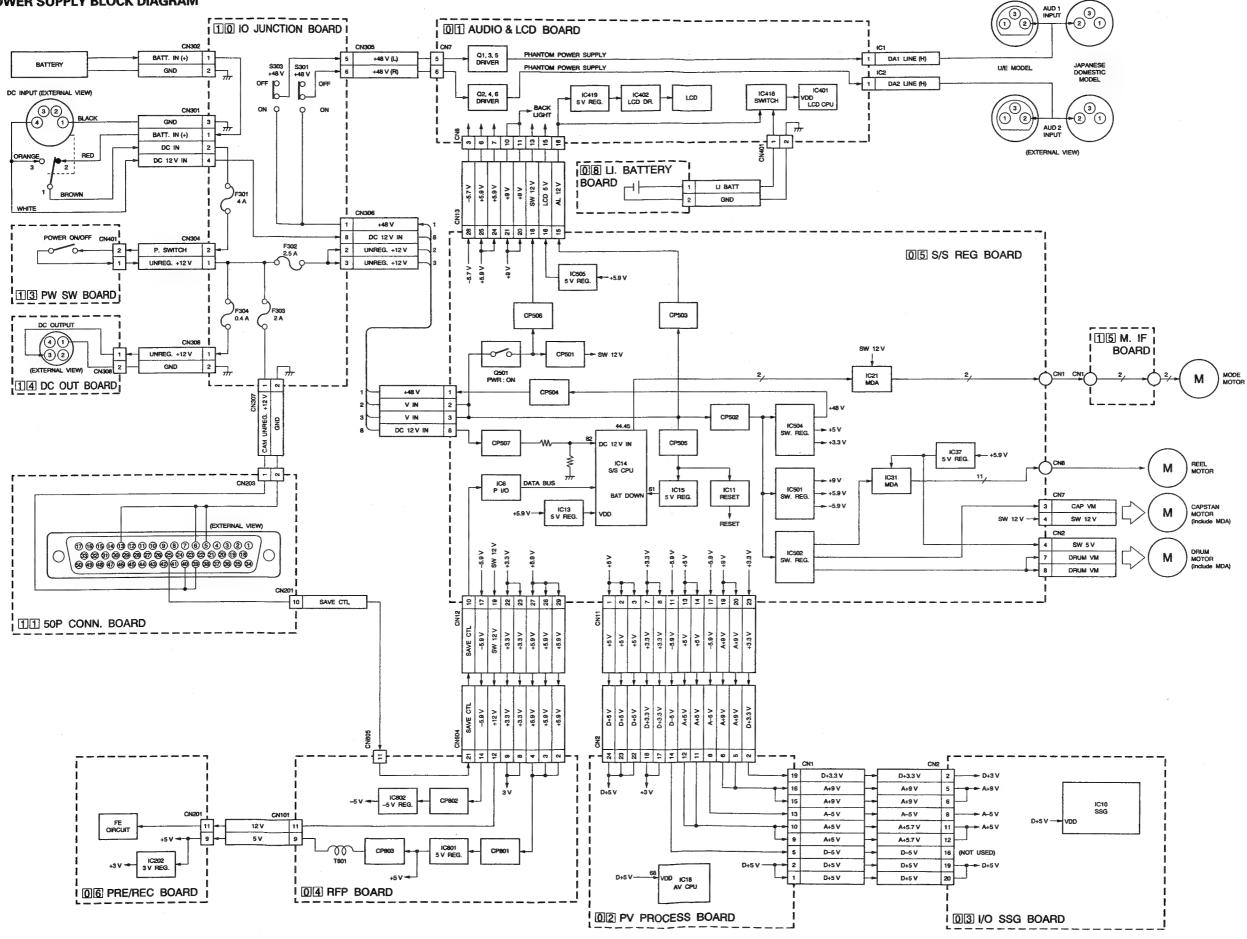
14

Board No.	Board Name	Page of diagram		
Doard No.	Board Name	Block diagram	Schematic diagram	Circuit board
01 02 03 04 05	AUDIO & LCD PV PROCESS I/O SSG RFP (RF PROCESS) S/S REG	4-12, 4-13 4-9 4-8 4-10 4-14	4-36 to 4-39 4-19 to 4-24 4-15 to 4-17 4-26 to 4-29 4-42 to 4-44	4-40 to 4-41 4-25 4-18 4-30 to 4-31 4-45
06 07 10 11 12 13	PRE/REC OPERATION IO JUNCTION 50P CONN. CONNECTOR POWER SW	4-11 - - - - -	4-32 to 4-34 4-47 4-47 4-50 4-50 4-49	4-35 4-47 4-47 4-50 4-50
14 15 16 17 18 19	DC OUT MECHA. IF DRUM MDA A/C HEAD MODE SENSE AL SENSE TU REEL FG	- - - - -	4-49 4-48 4-46 4-48 4-48 4-48	4-50 4-50 4-46 4-50 4-50 4-50
21 22 23 -	SP REEL FG SP REEL FG BEGIN SENSE END SENSE OVERALL	- - - -	4-48 4-48 4-48 4-48 4-48 to 4-49	4-50 4-50 4-50 4-50 4-50

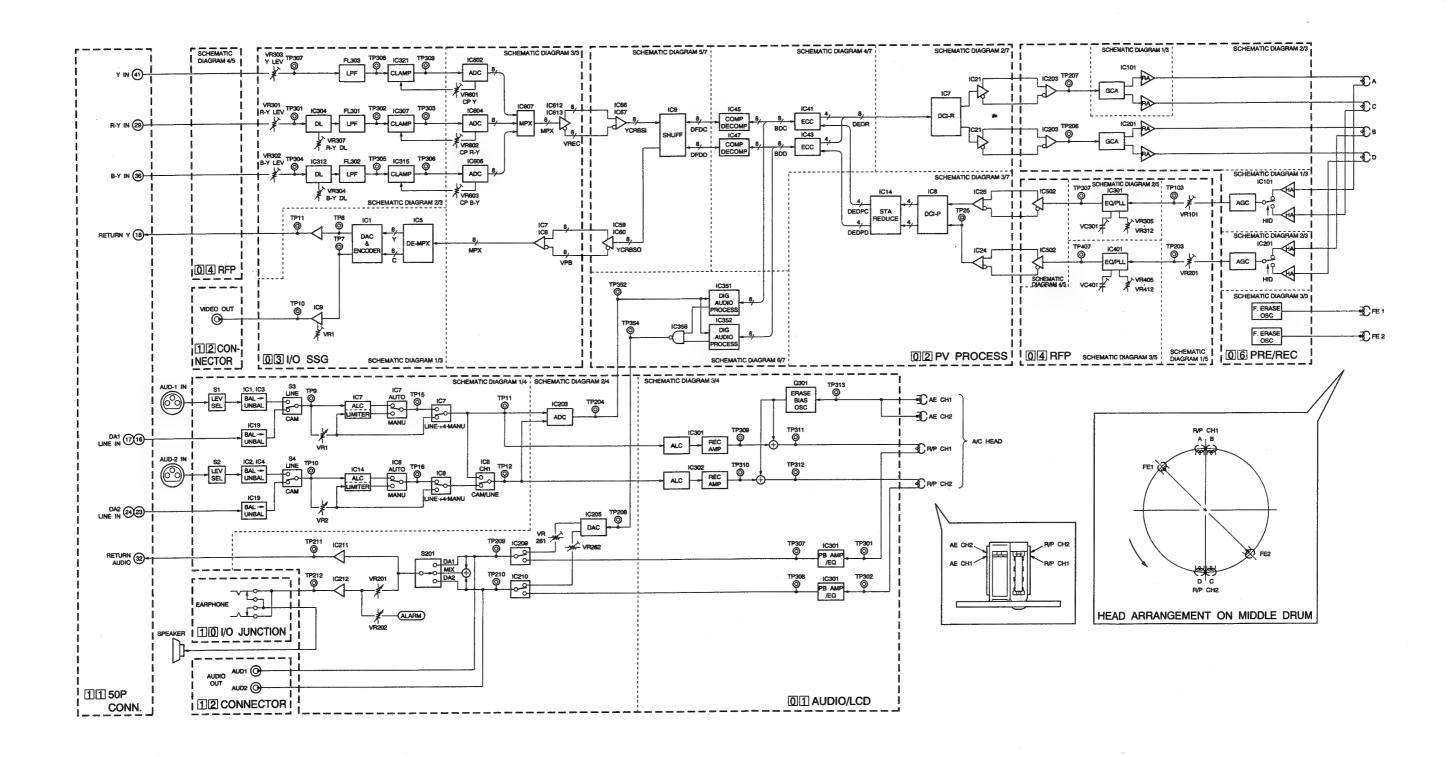
4-3

4-3

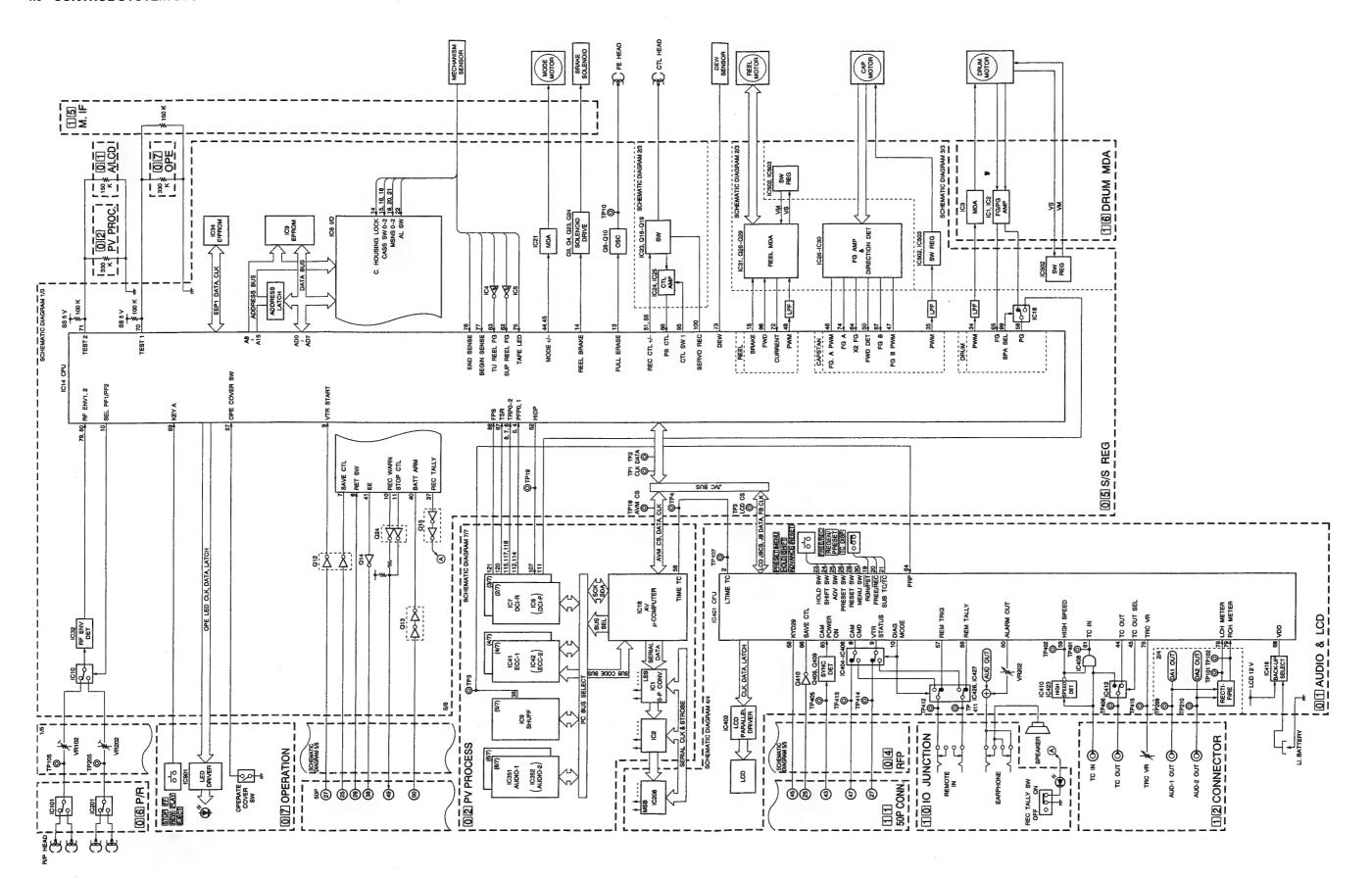
4.3 POWER SUPPLY BLOCK DIAGRAM



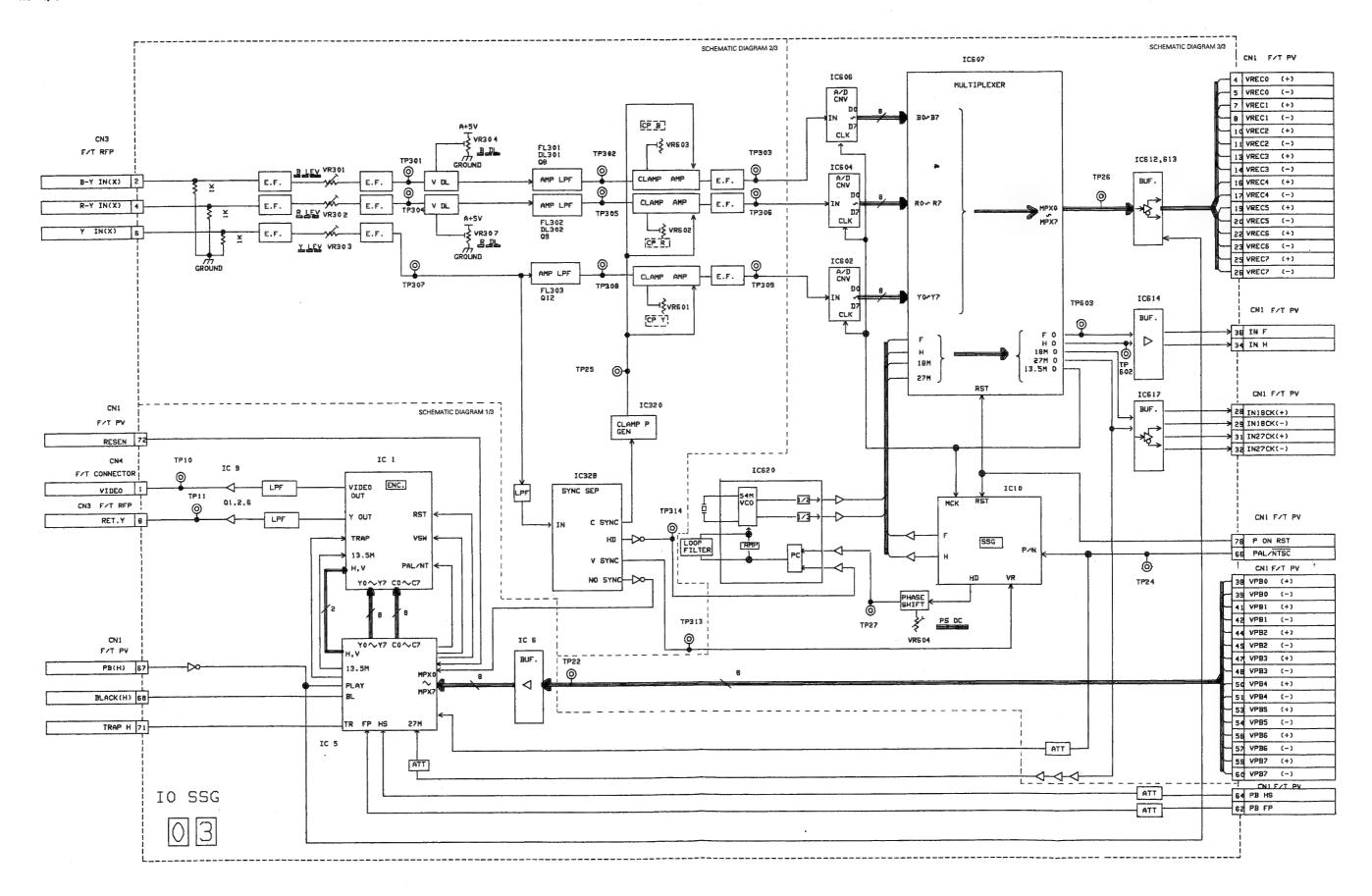
4.4 VIDEO & AUDIO BLOCK DIAGRAM



4.5 CONTROL SYSTEM BLOCK DIAGRAM

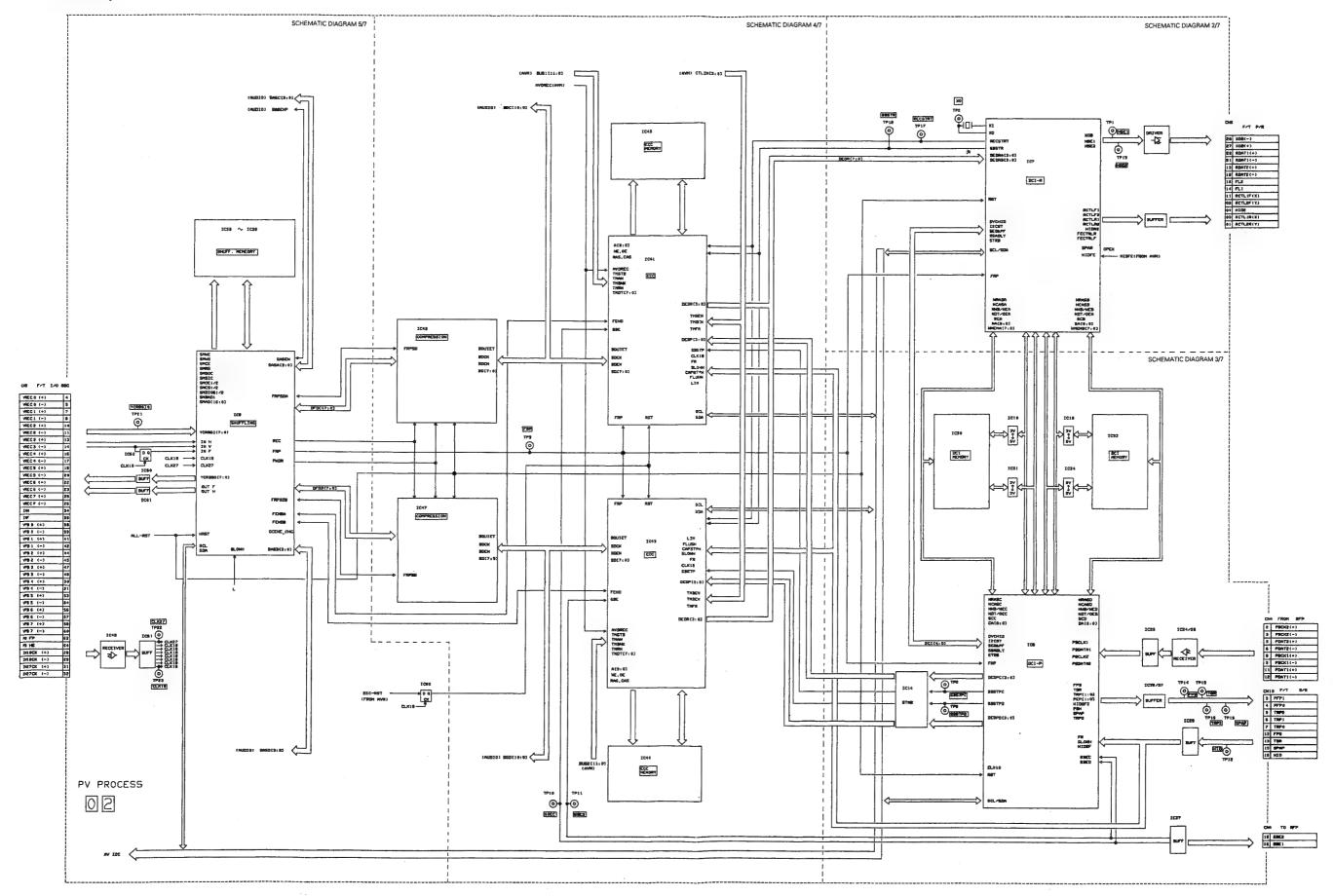


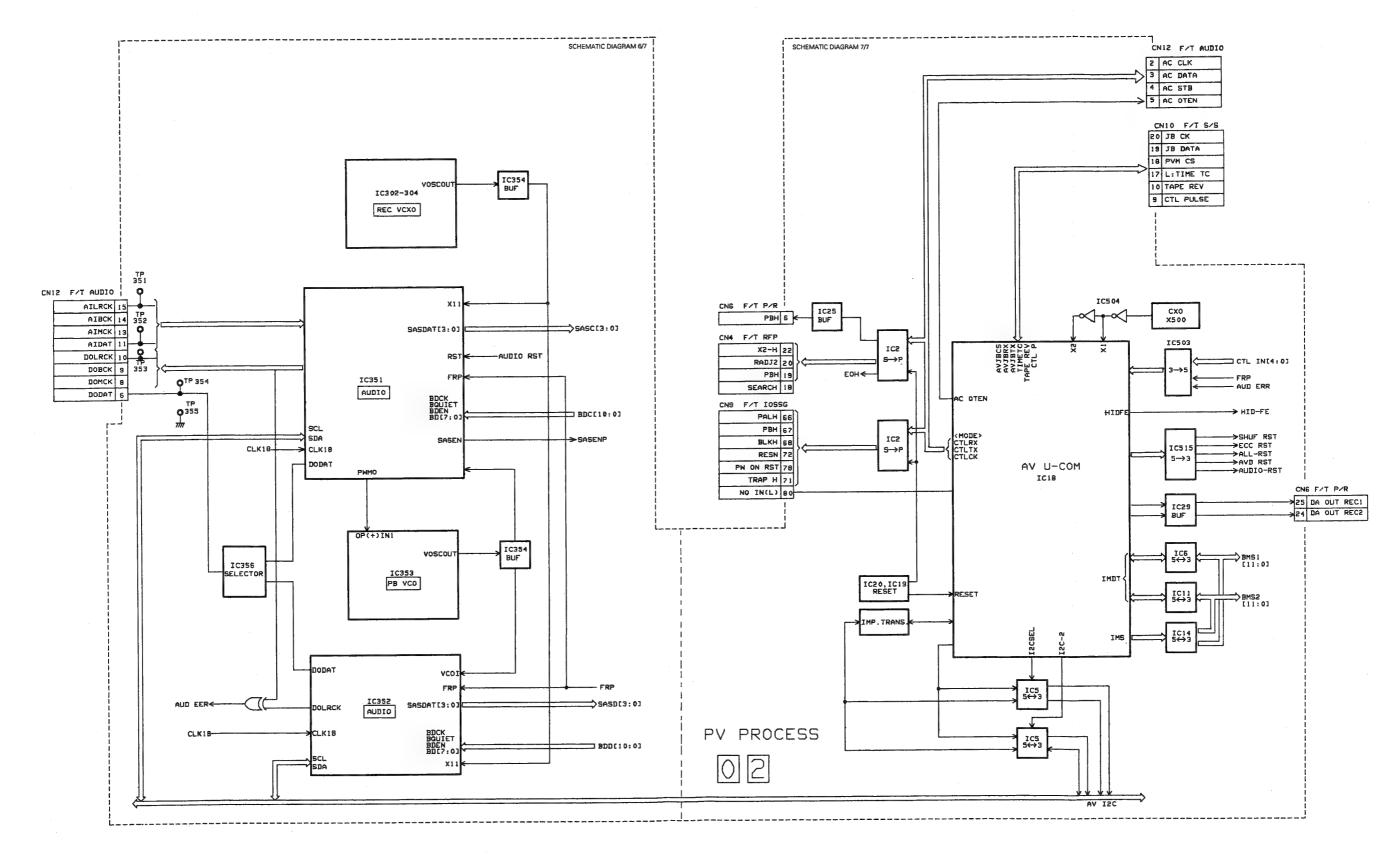
4.6 I/O SSG BLOCK DIAGRAM



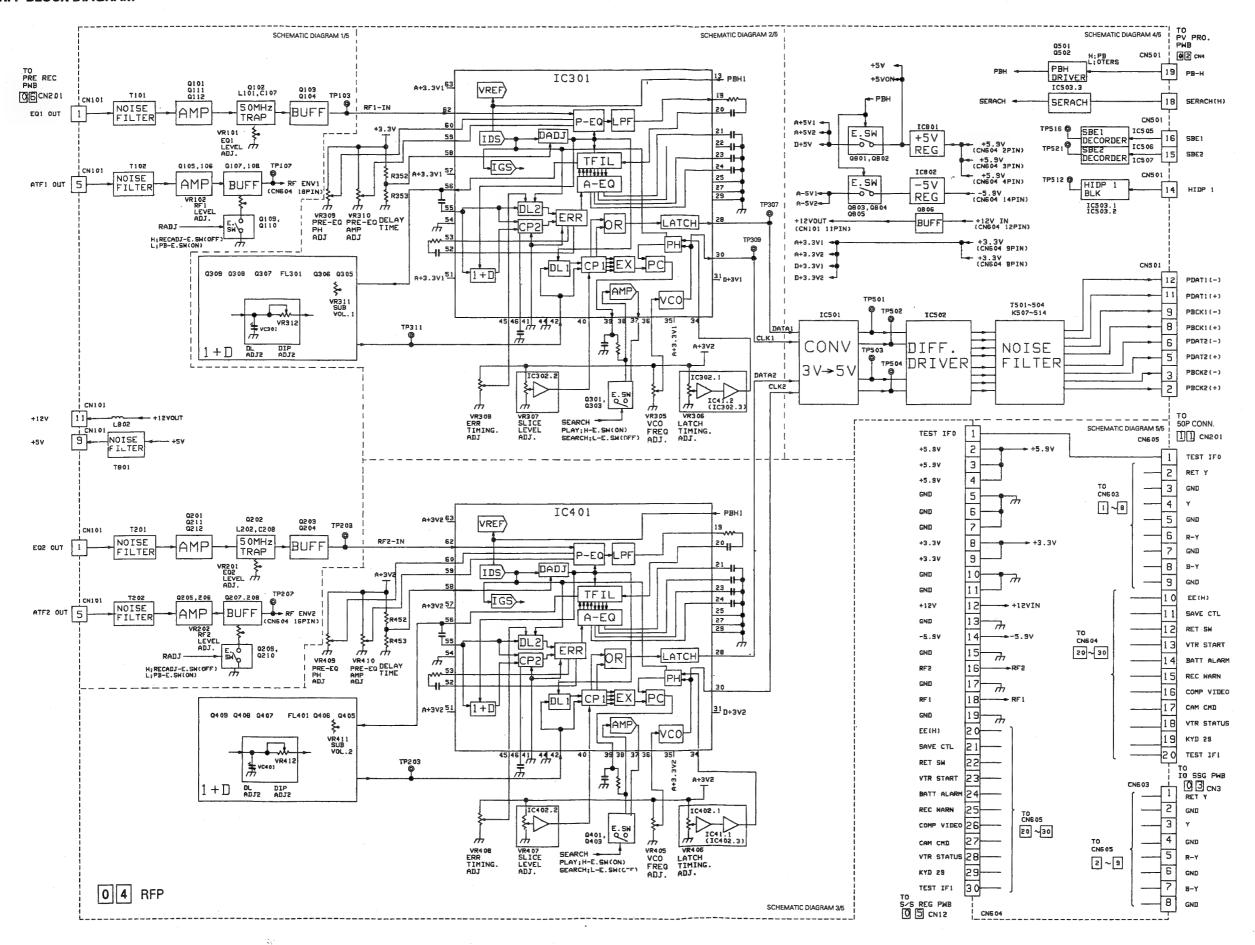
4.7 PV PROCESS BLOCK DIAGRAM

- DIAGRAM 1/2 -

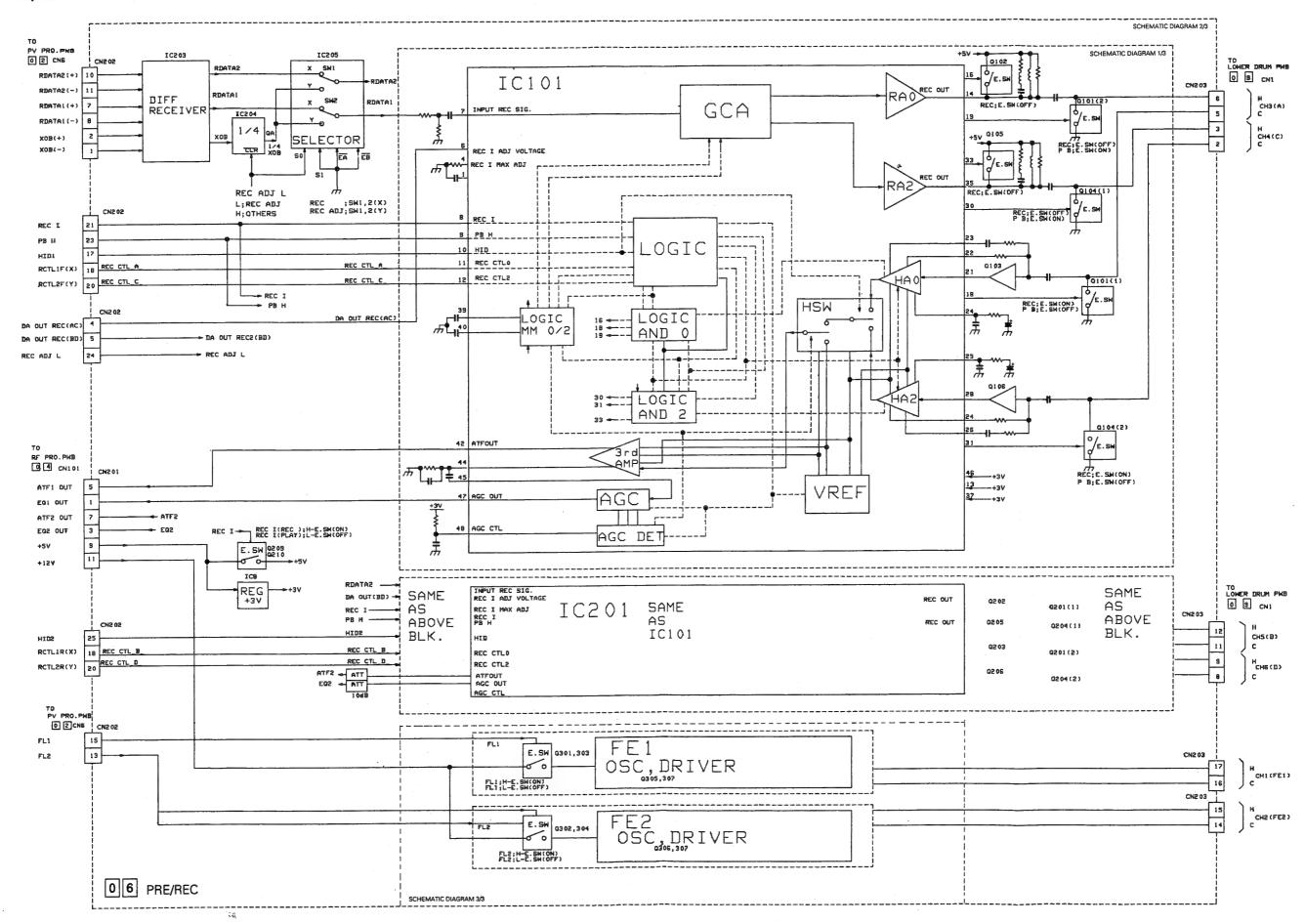




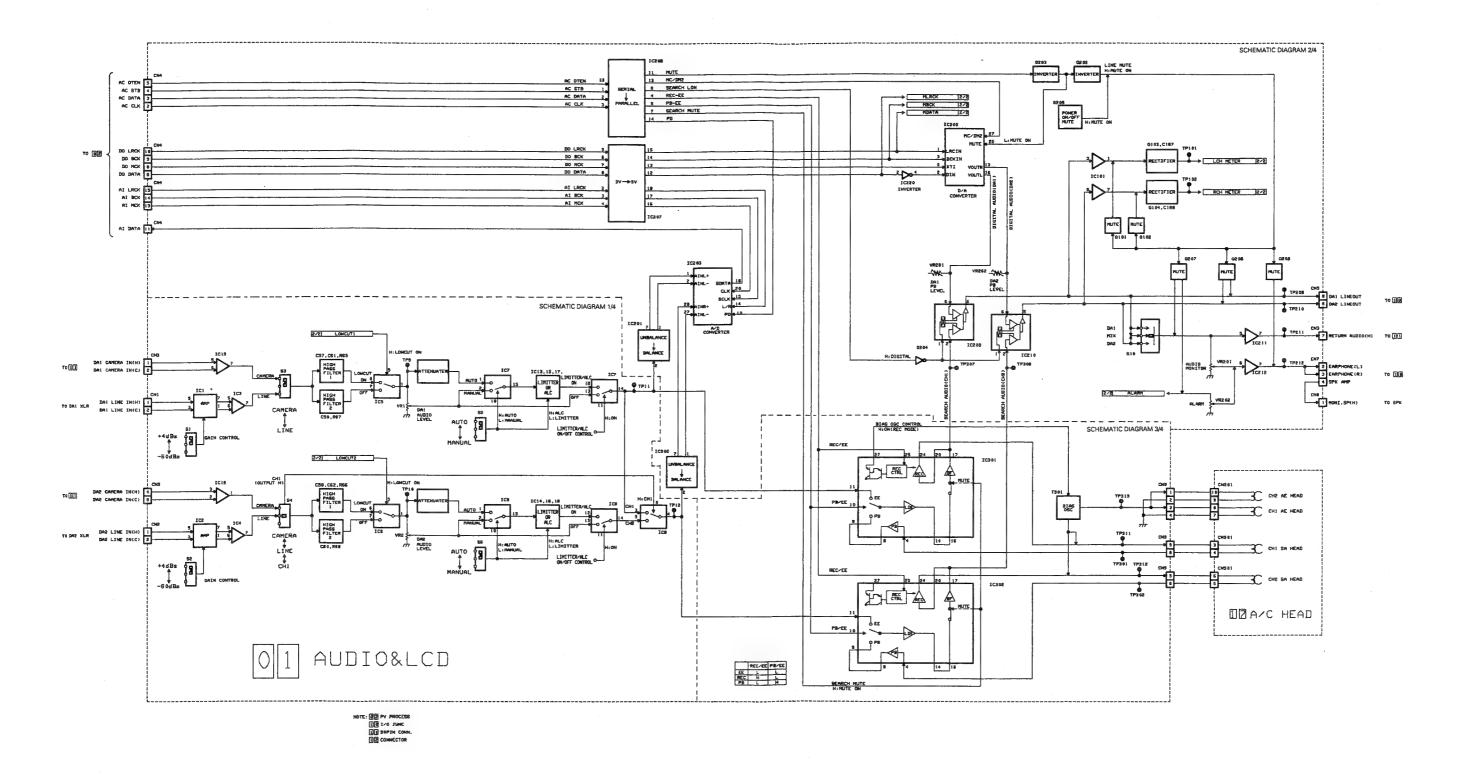
4.8 RFP BLOCK DIAGRAM



4.9 PRE/REC BLOCK DIAGRAM

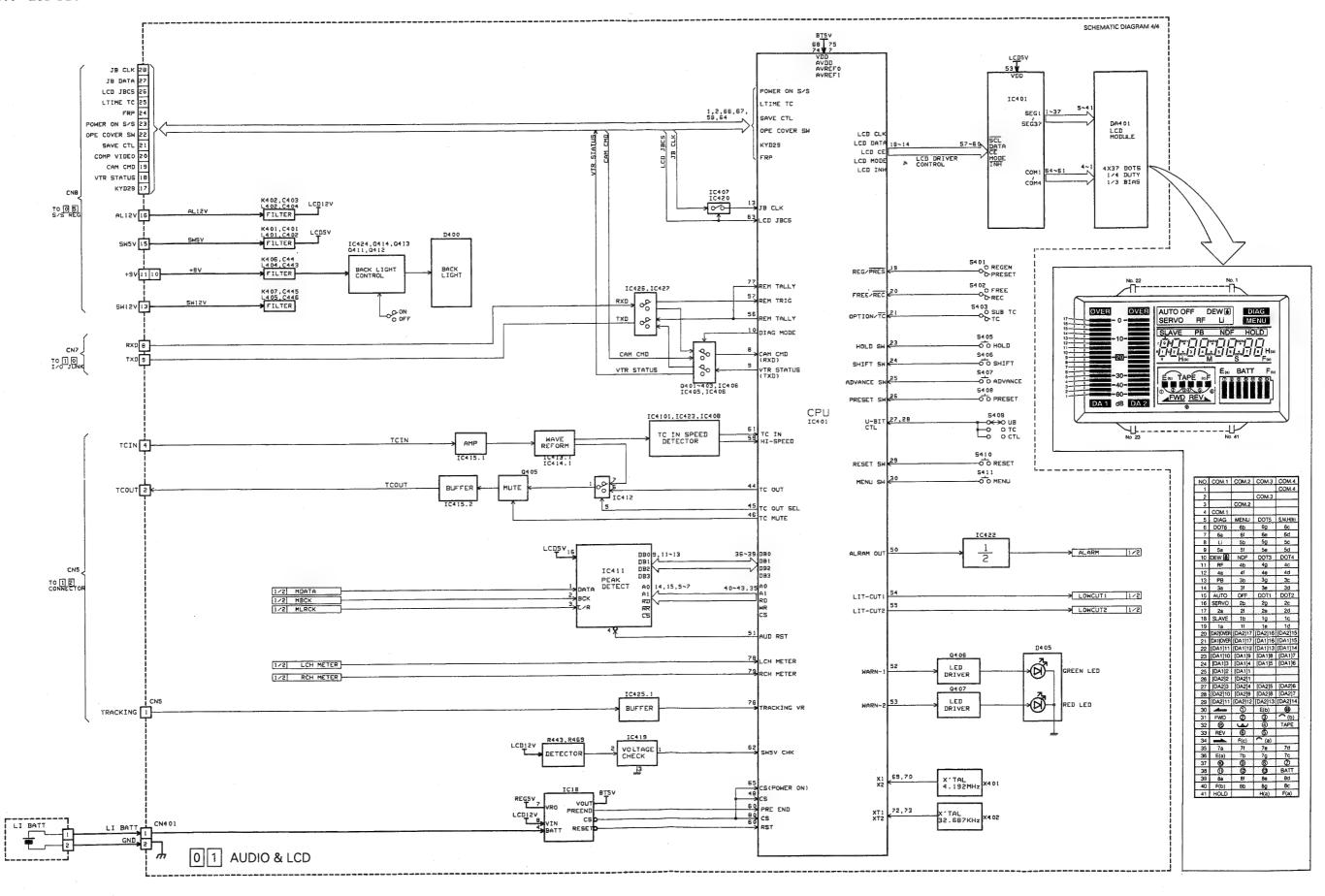


4.10 AUDIO BLOCK DIAGRAM

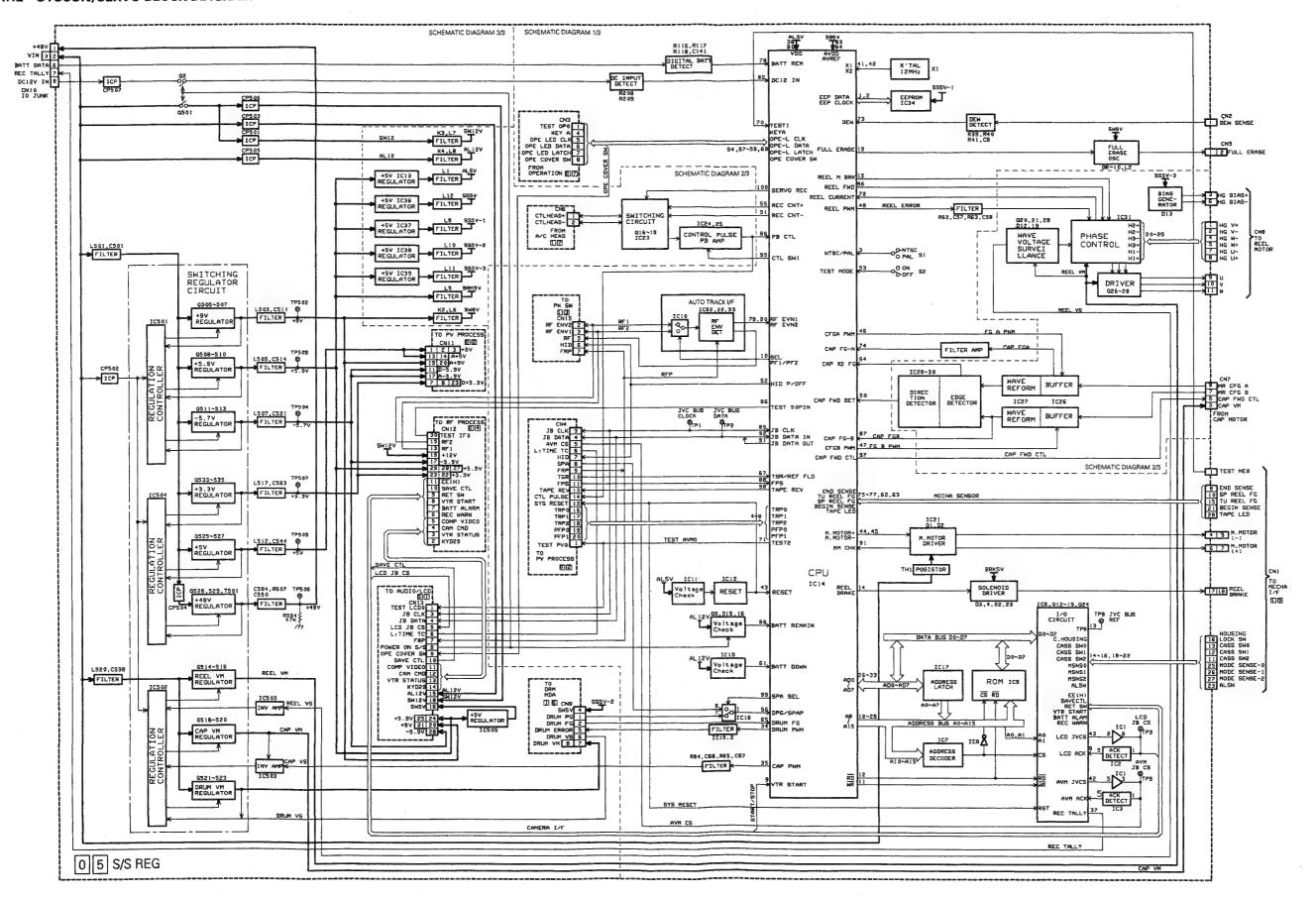


4-12

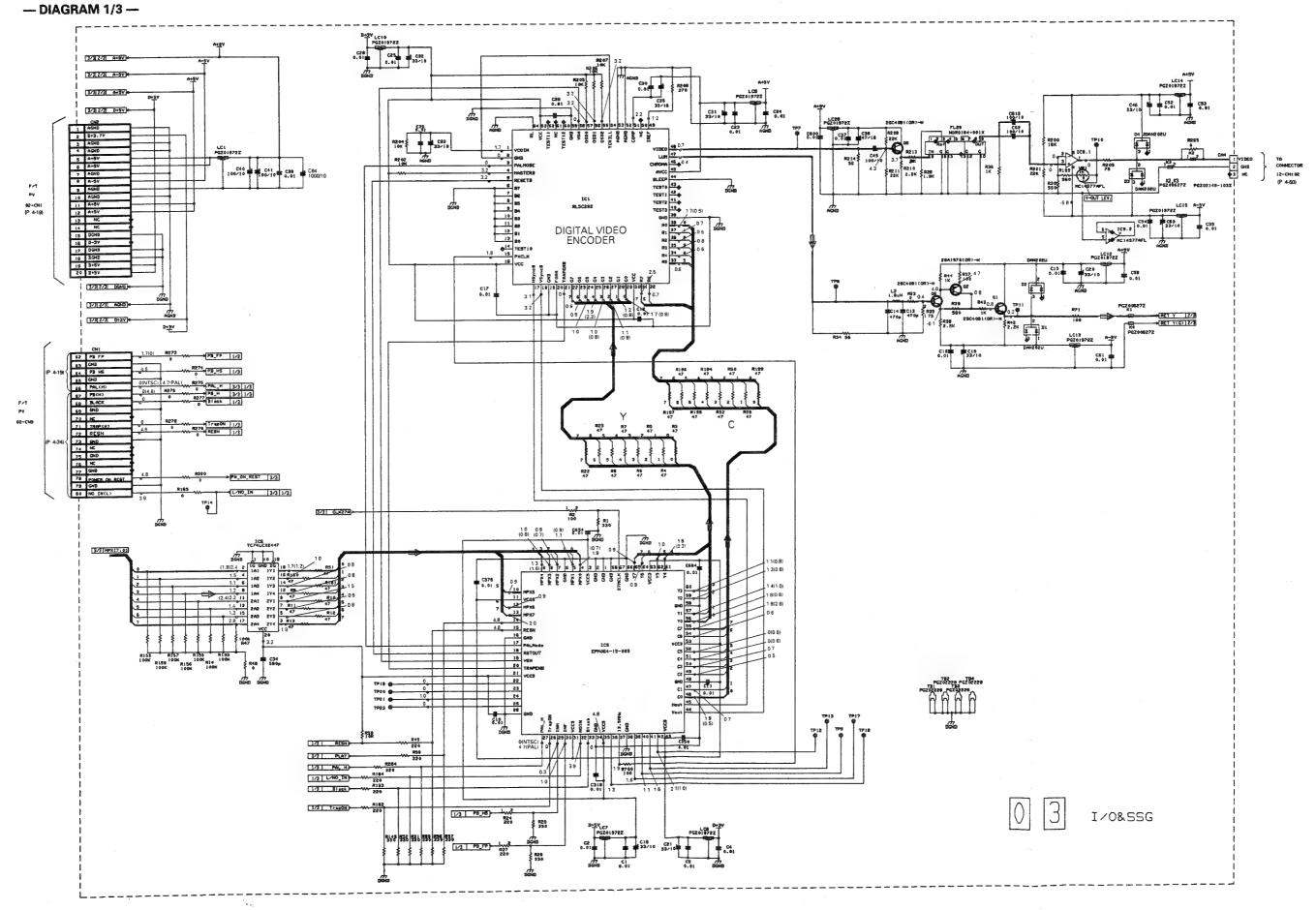
4.11 LCD BLOCK DIAGRAM



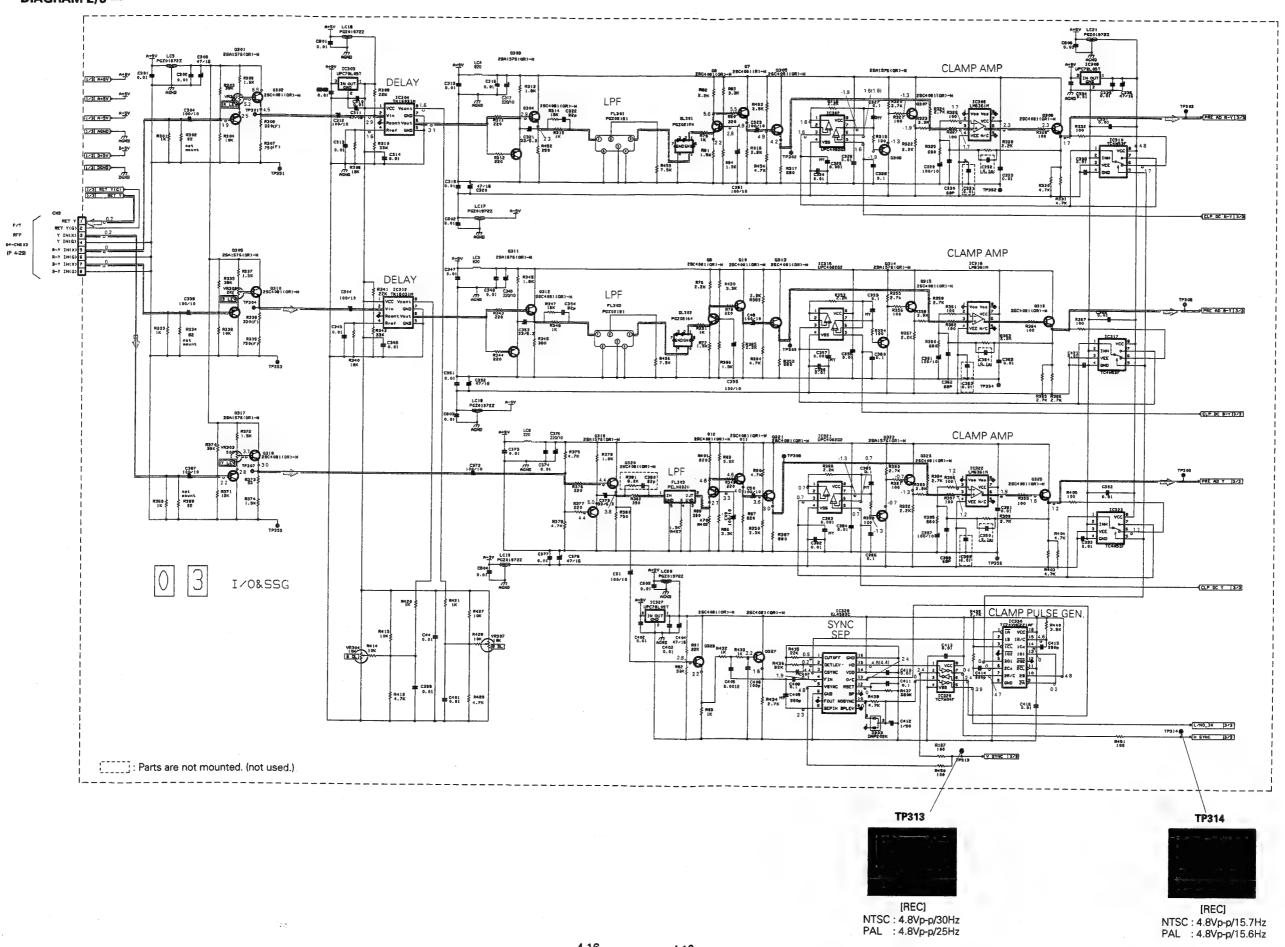
4.12 SYSCON/SERVO BLOCK DIAGRAM



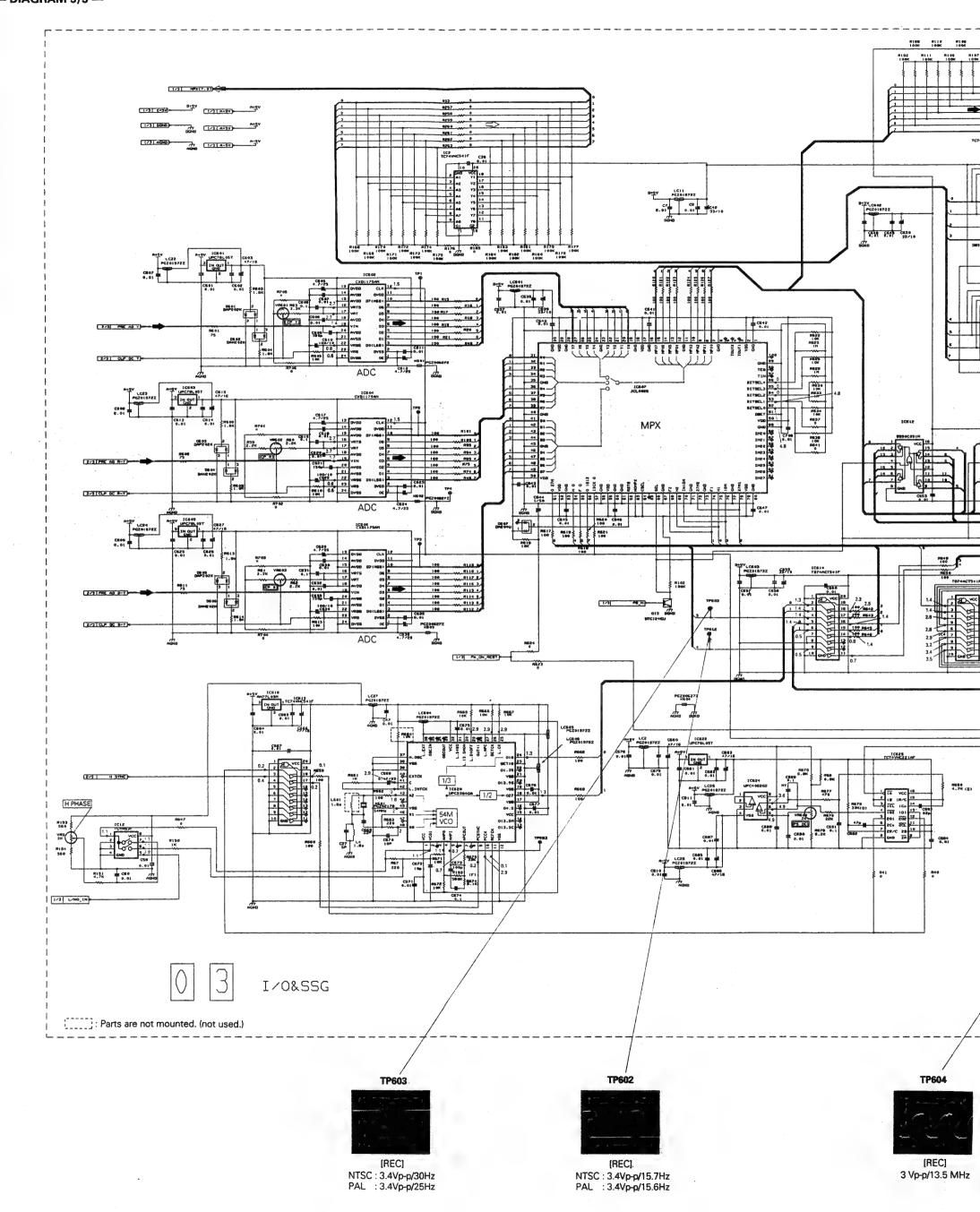
4.13 I/O SSG SCHEMATIC DIAGRAM 03

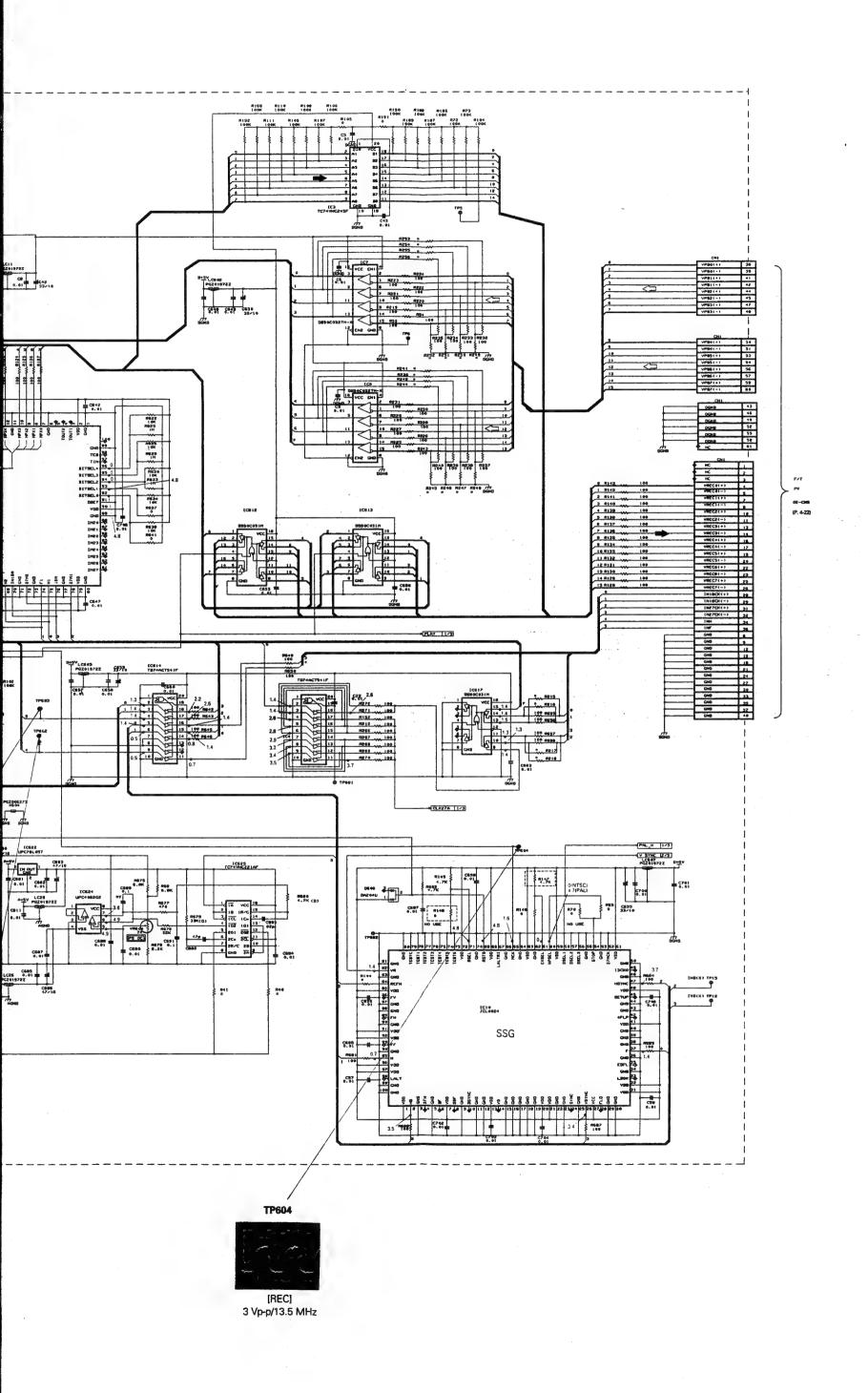


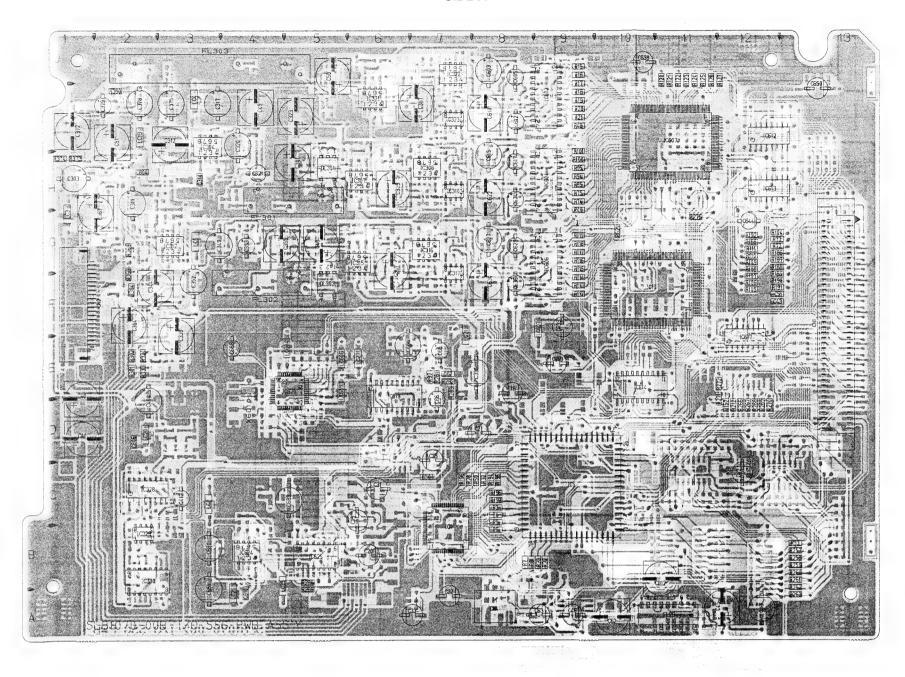
— DIAGRAM 2/3 —



4-16





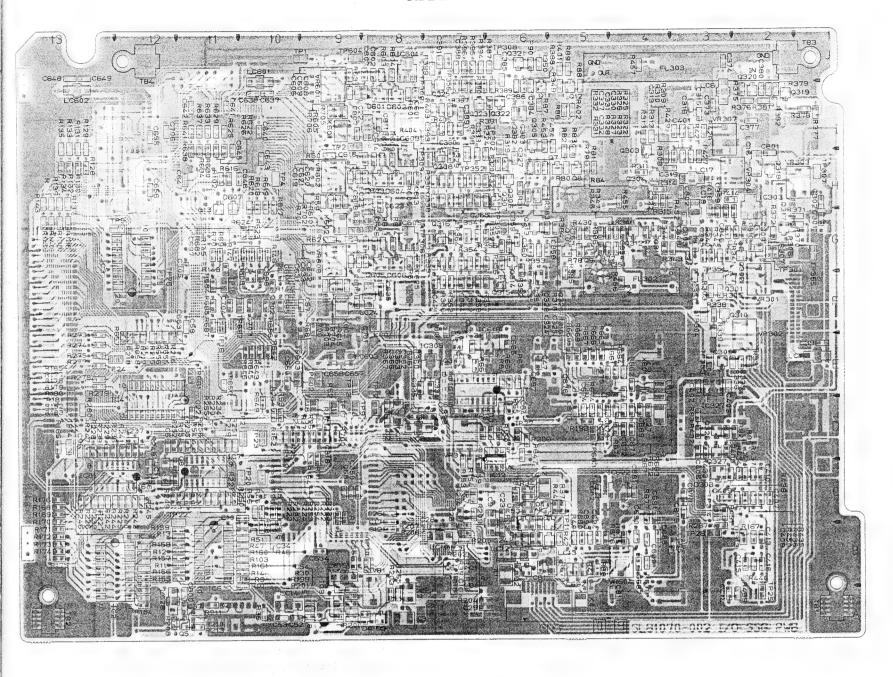




OADDRESS TABLE OF BOARD PARTS

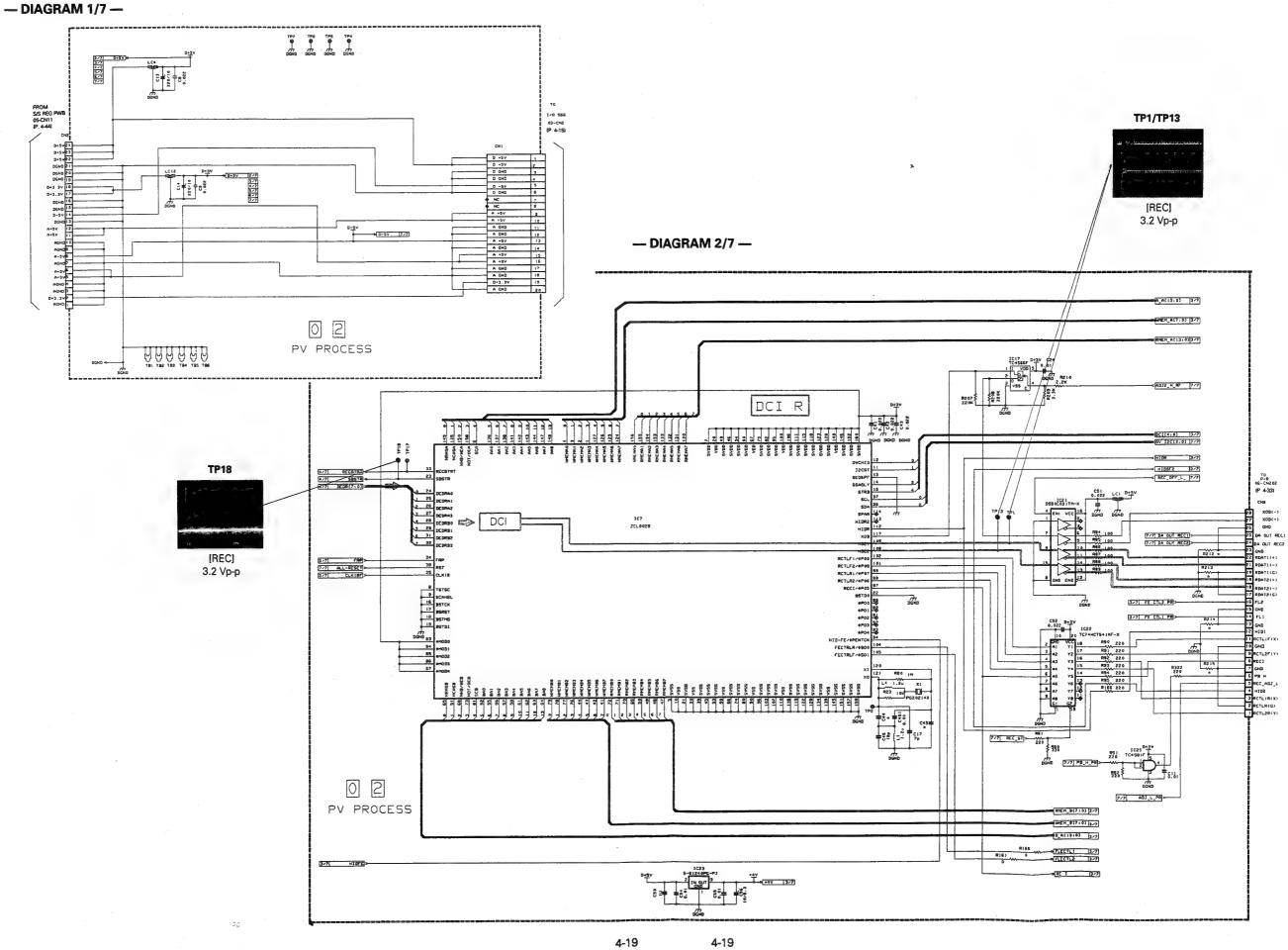
Each address may have an address error by one interval.

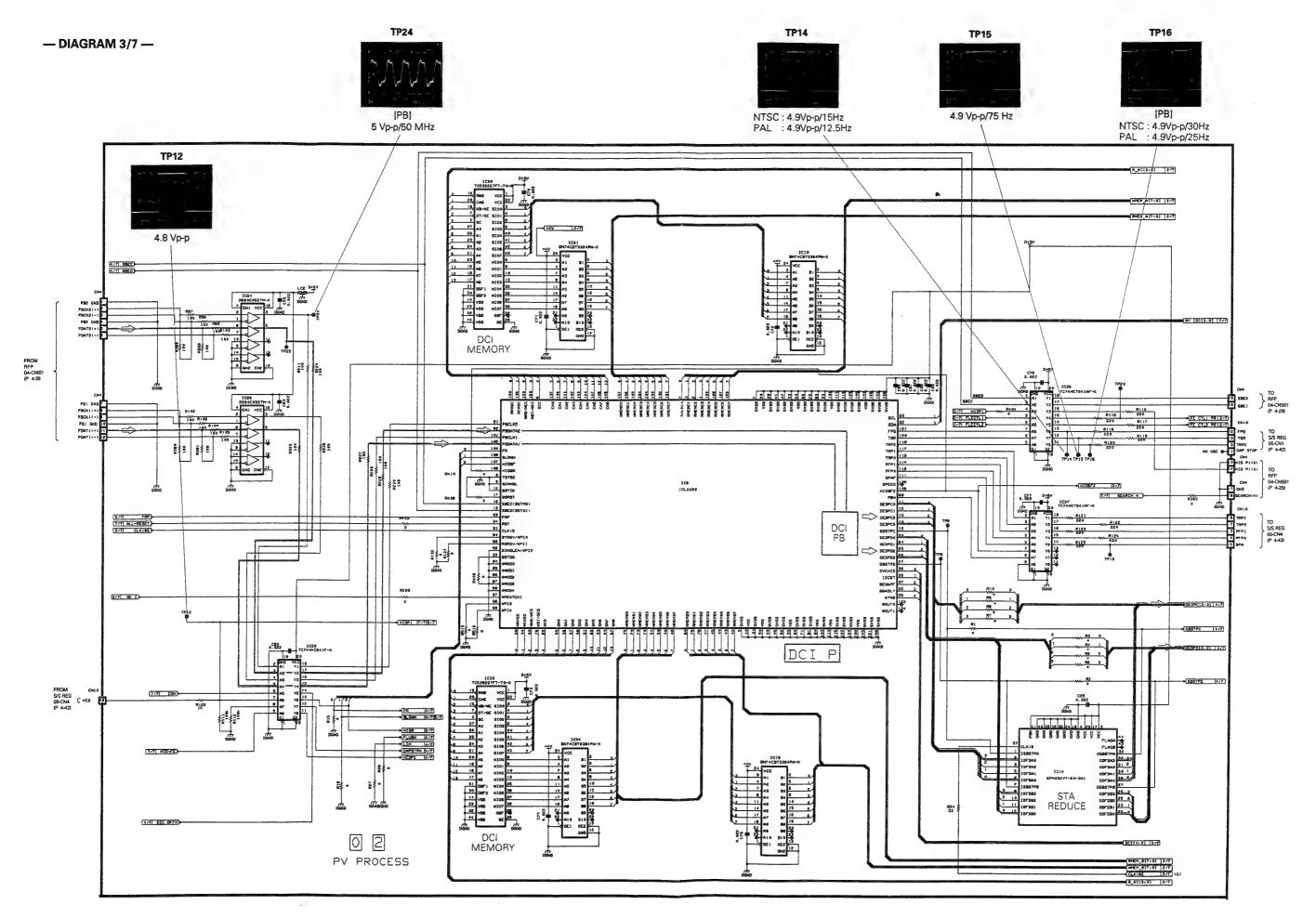


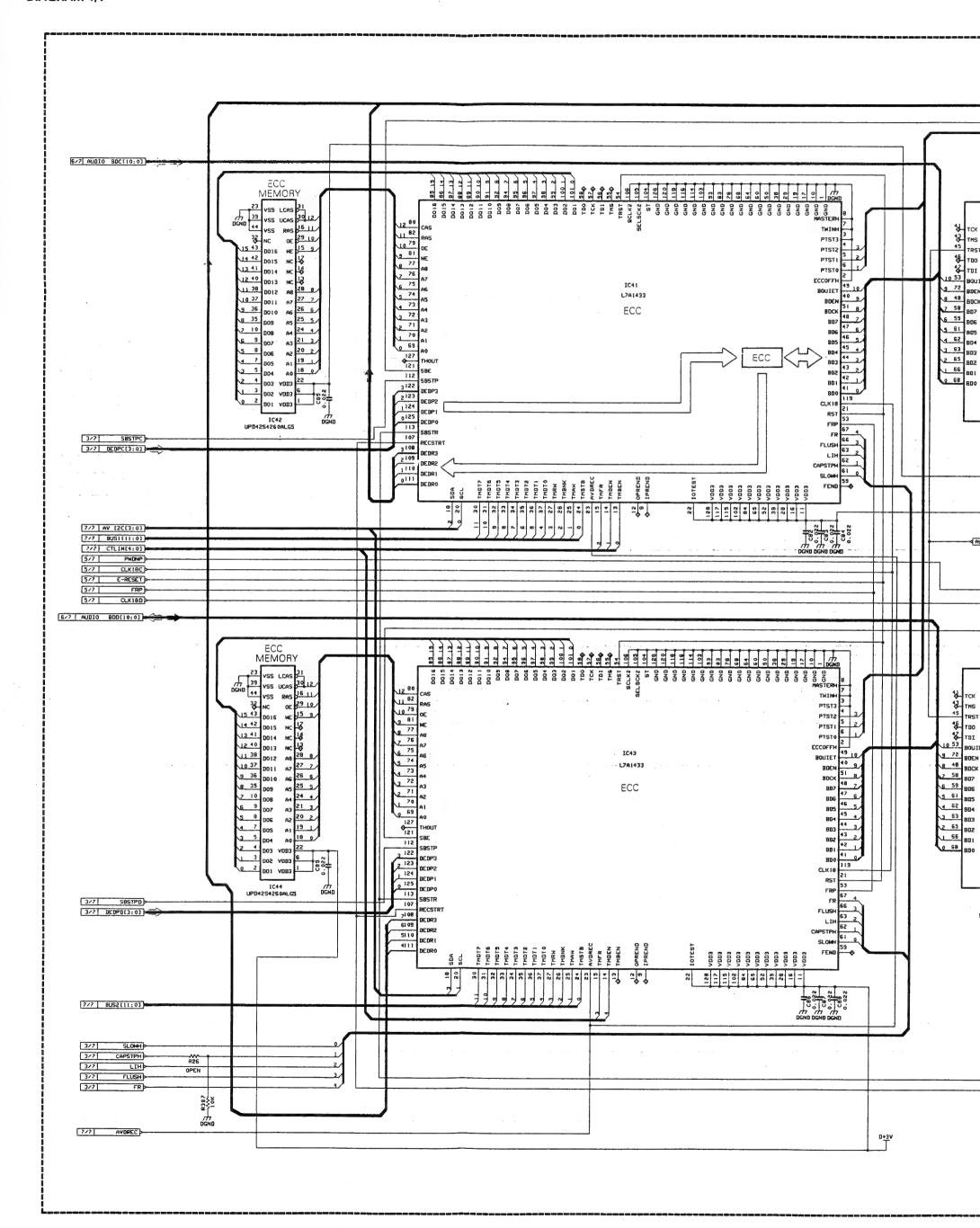


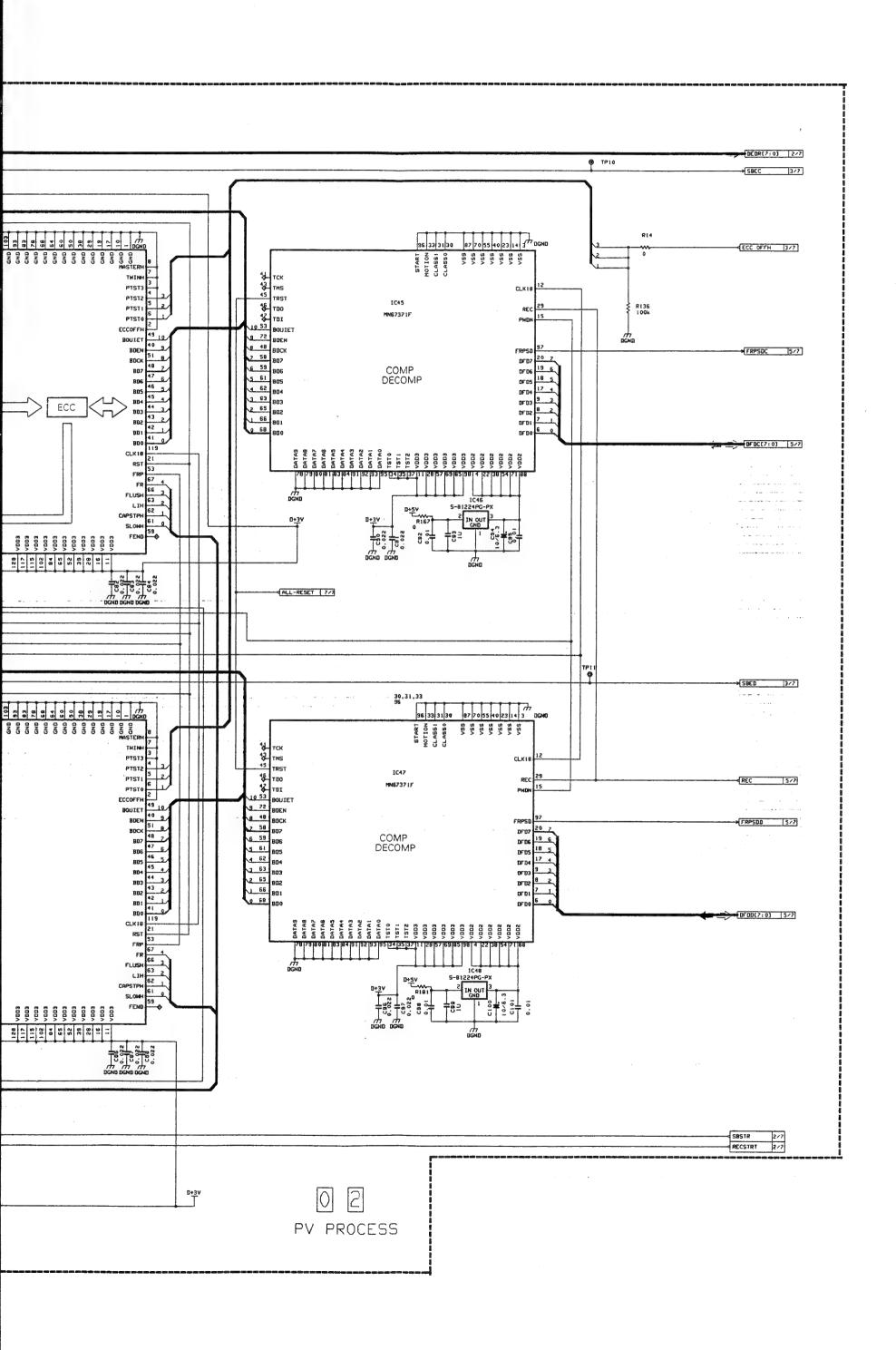
	D TP11 B-5C TB1 B-1B C TP12 B-8E TB2 B-13B D TP13 B-8E TB3 B-1J C TP14 B-13D TB4 B-12J
80 A-3C	81 B- 4D 882 B- 5D 883 A- 4C 884 B- 9D 885 B- 3C 886 A- 3B
	B- 91 B- 81 B- 81 A- 8H B- 8H
	U C620 U C621 U C622 OC C623
C366 B- 70 C367 A- 1H	C372 A- 11 C373 B- 3J C374 B- 2J C375 A- 3J C376 B- 10 C377 B- 2I
A- 7F B- 1H B- 1H A- 1I	A- 2F B- 2H B- 2H A- 2H A- 3I B- 3I
C68 C301 C302 C303	C304 C309 C310 C311 C312 C313
B- 8D B- 8C B- 6C B- 6C B- 6C	B- 6C B- 8C A- 8E A- 5C A- 6C A- 7D
C11 C12 C13 C14 C15	C16 C17 C18 C19 C20 C21
B- 6E B- 4E B- 4E B- 4E B- 4E	B- 4F B- 5F B- 5F B- 5F B- 5F B- 4E
R661 R662 R663 R664	R666 R667 R668 R669
B- 2C B- 2C B- 2D B- 2D B- 2B	B- 2B B- 2C B- 2C B- 3H B- 5I B- 5I
36 37 38 39	40 50 51 52 53 54

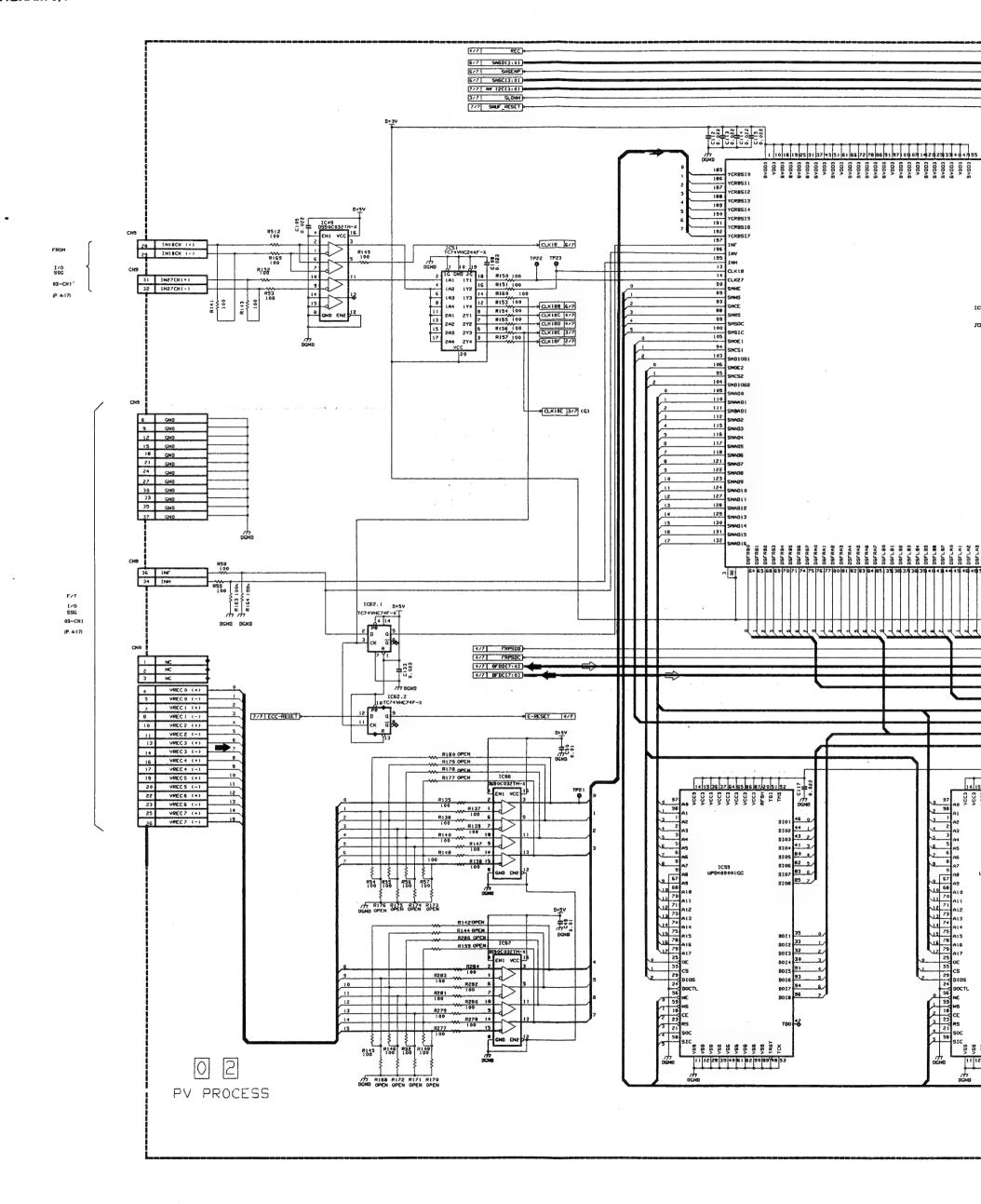
4.15 PV PROCESS SCHEMATIC DIAGRAM 02

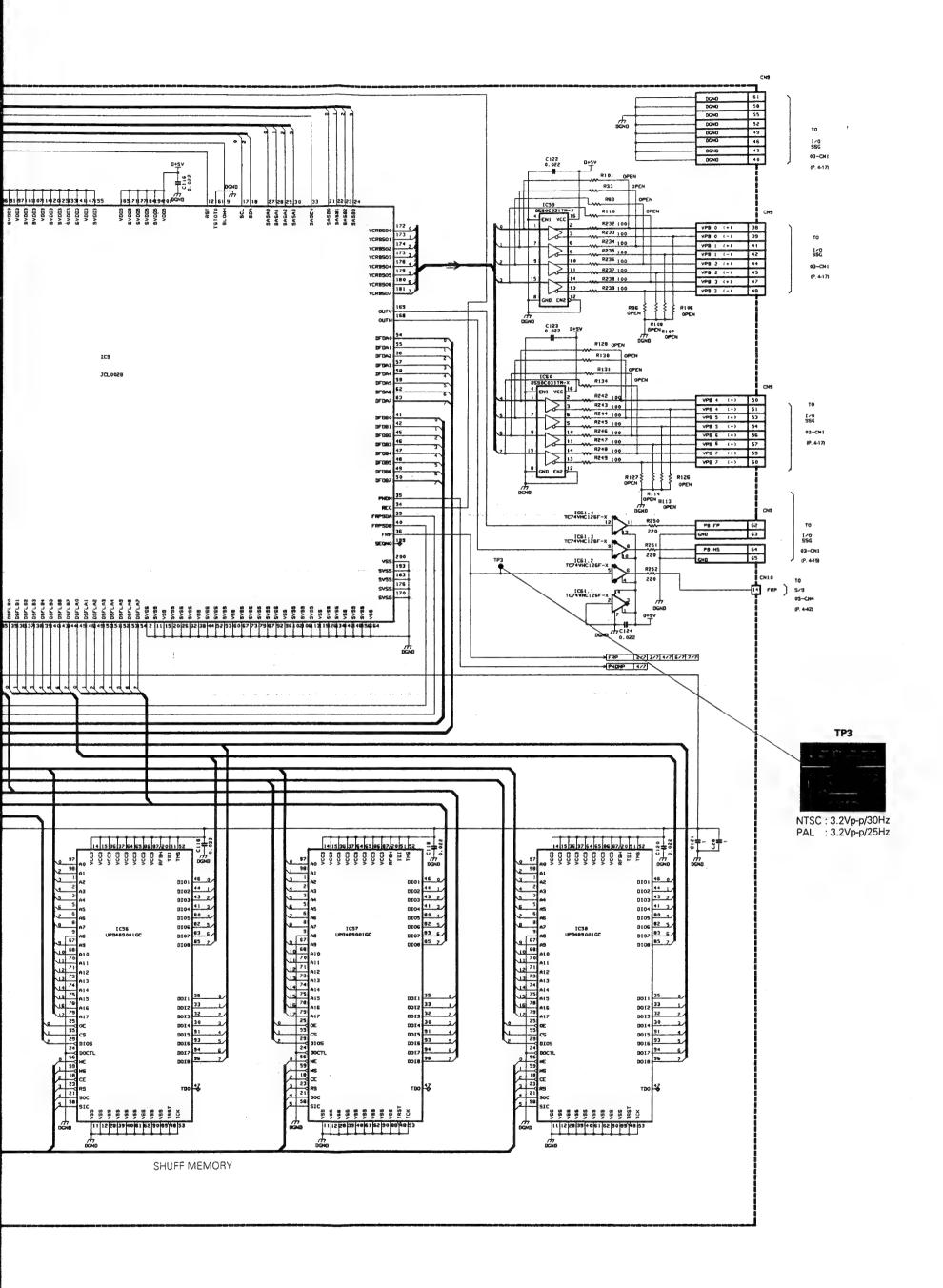


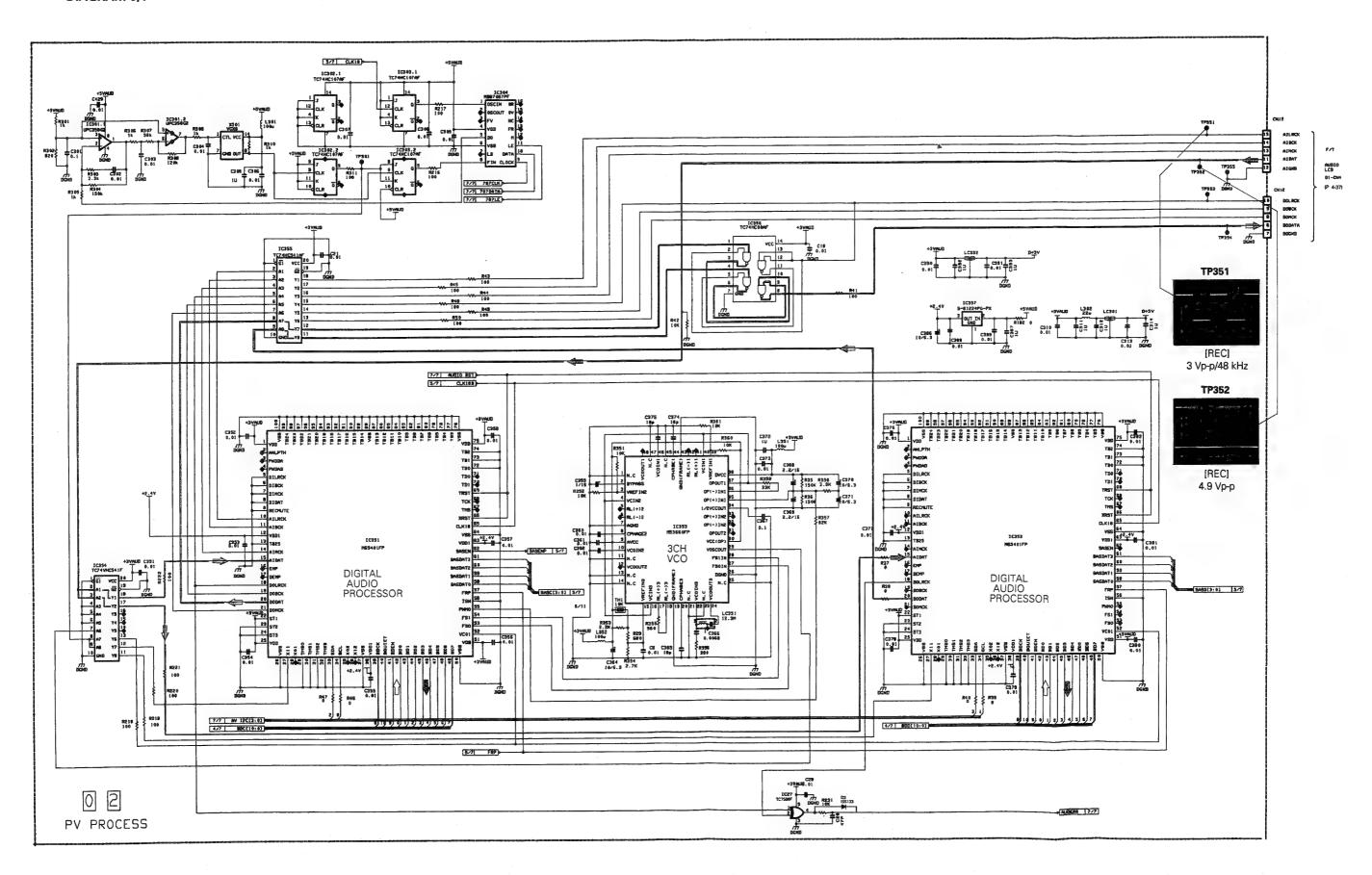




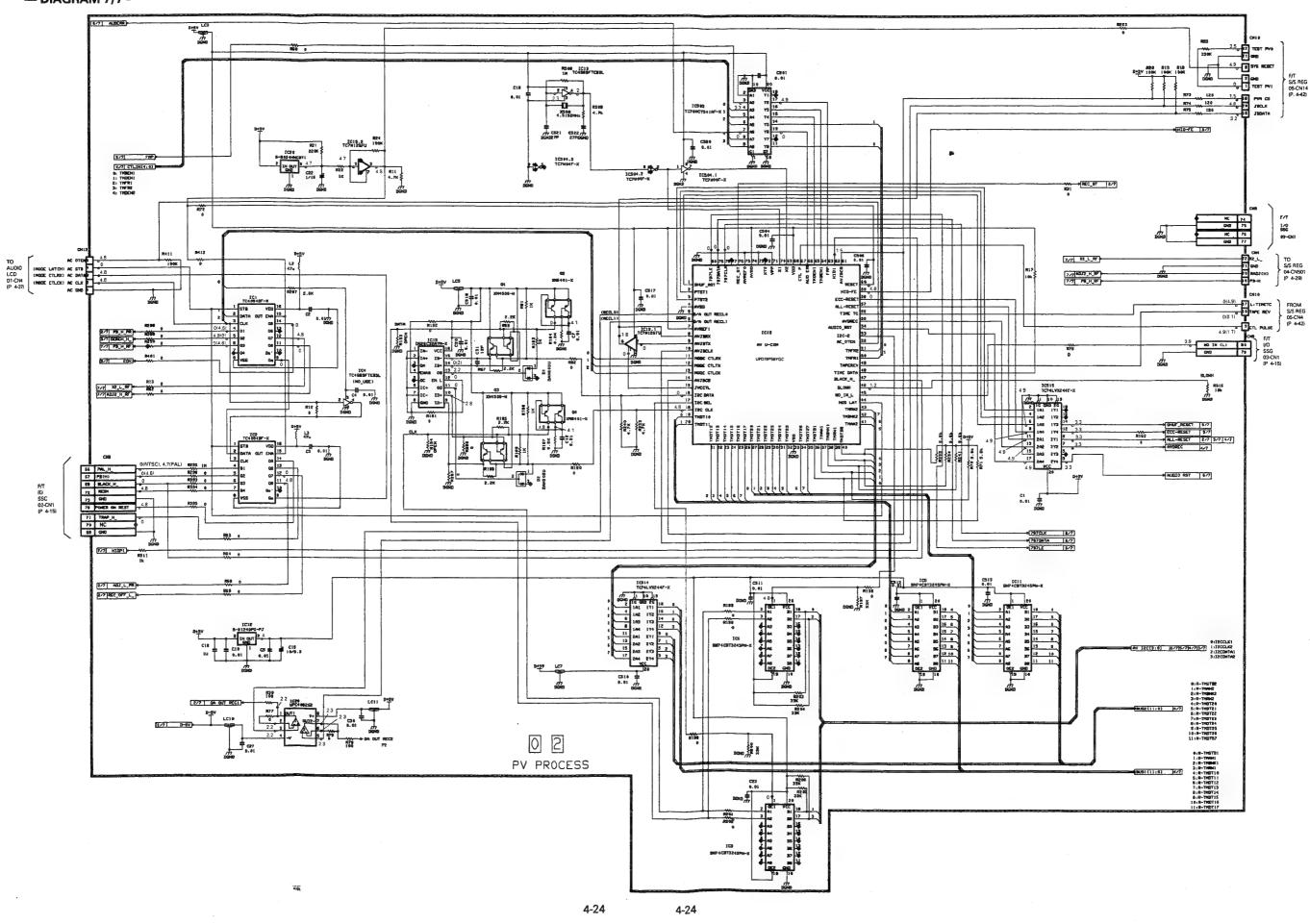


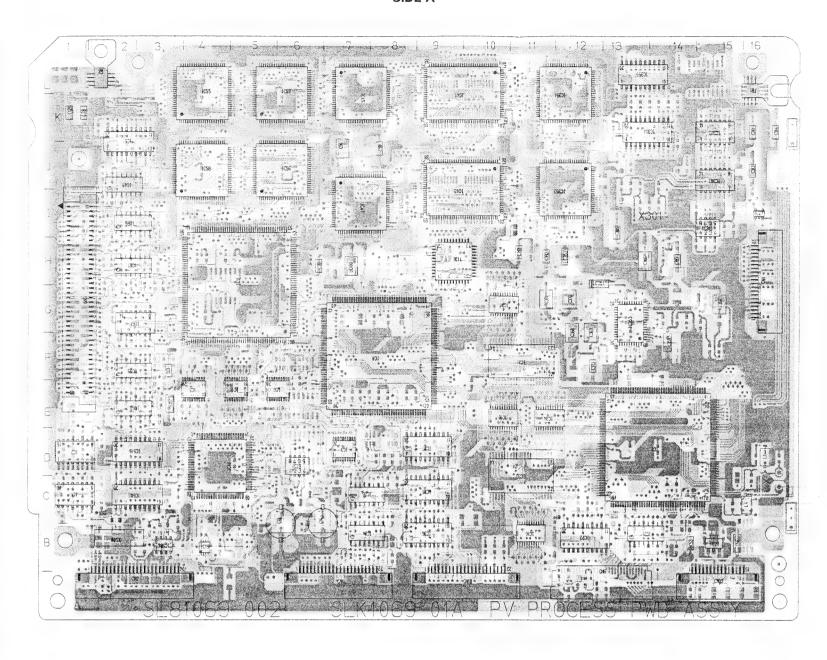


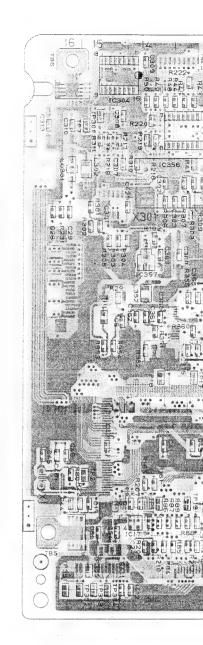




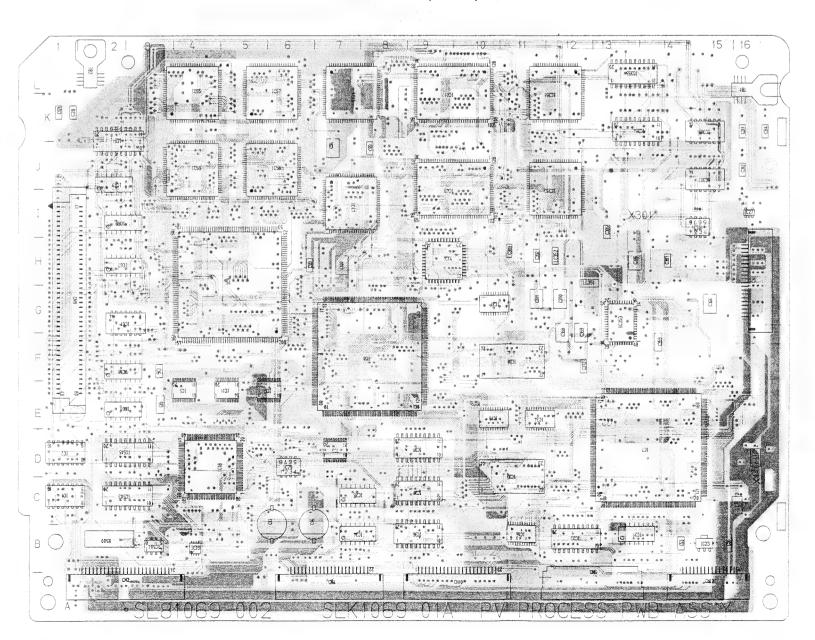
- DIAGRAM 7/7 -

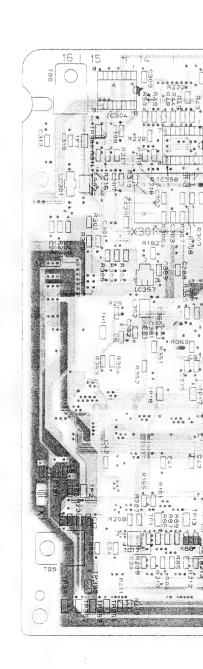


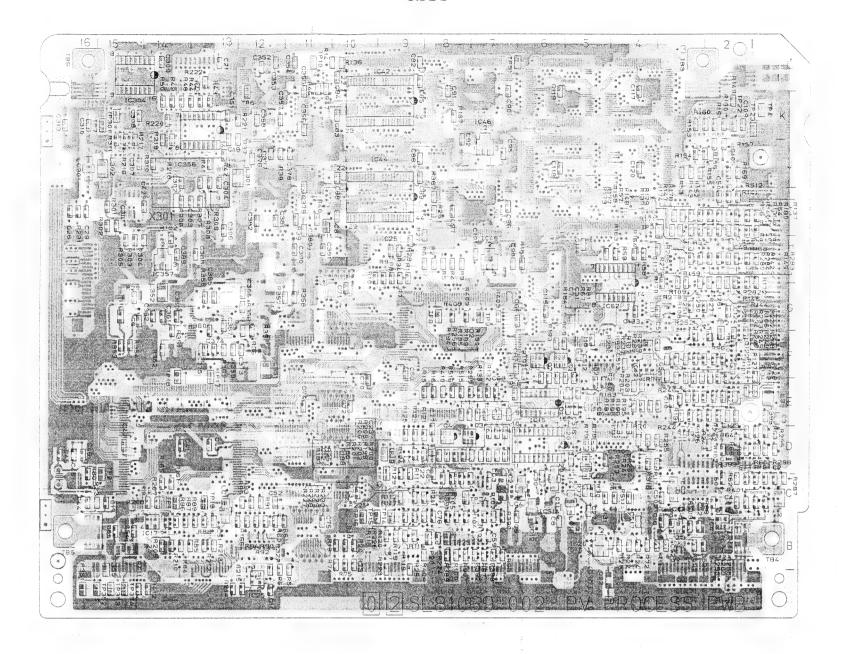




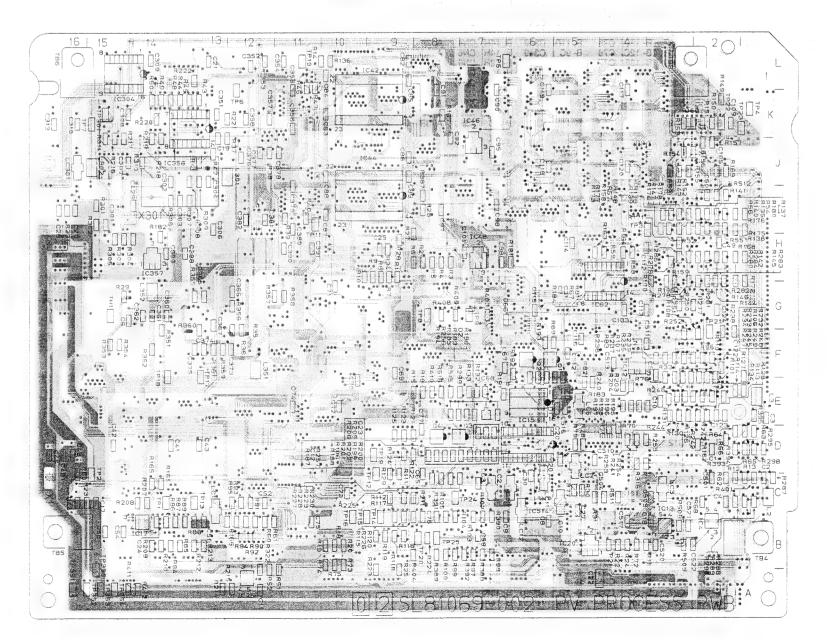
- INNER PATTERN (SIDE A) -







- INNER PATTERN (SIDE B) -

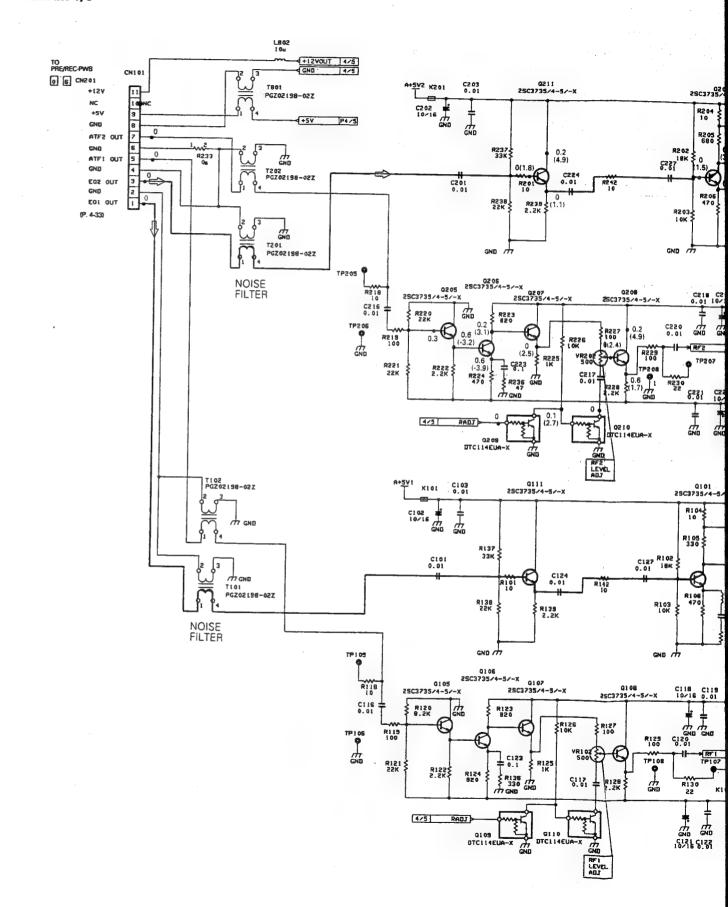


● ADDRESS TABEL OF PV PROCESS BOARD PARTS Each address may have an address error by one interval.

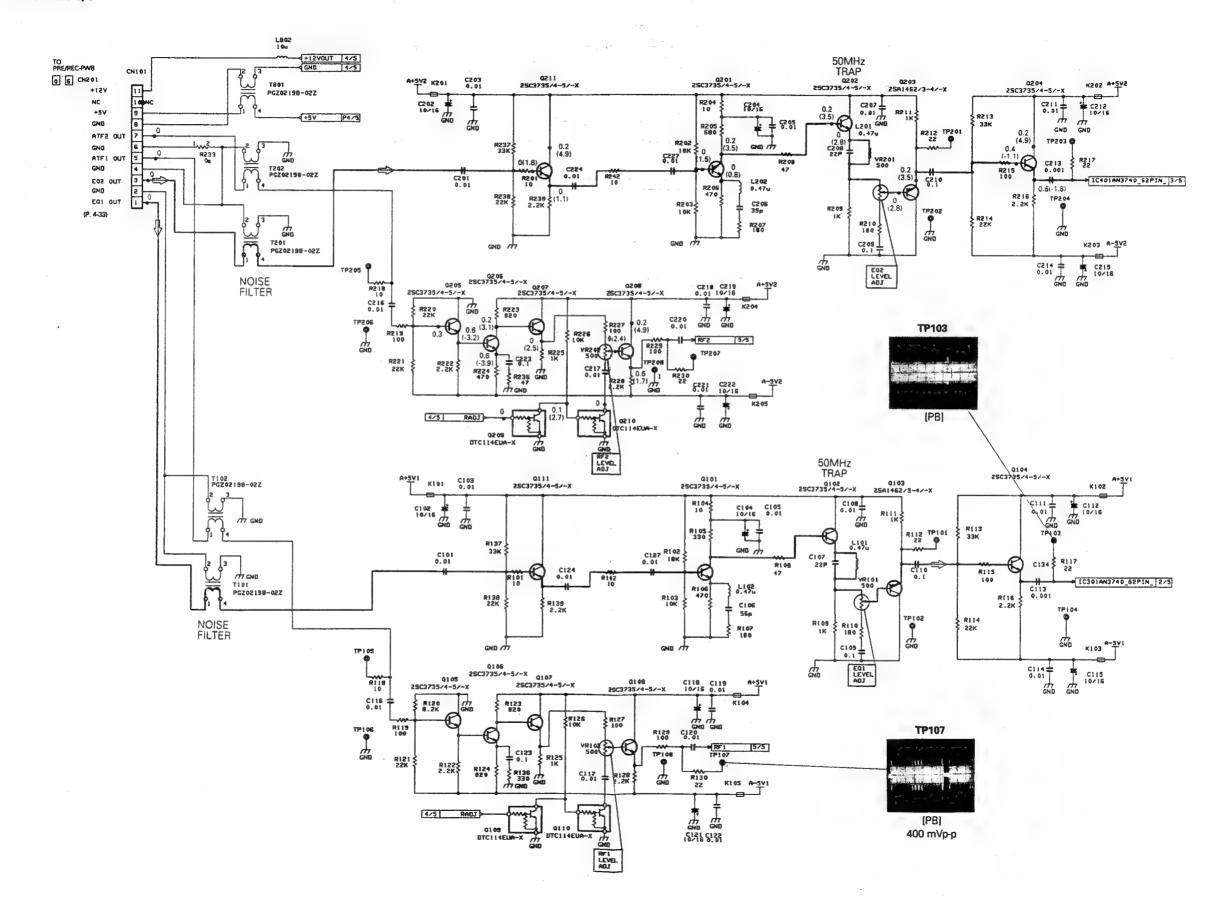


<u> </u>	axis											
C1	HOH BCCLLEBOOBBBC BABBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1147 B- 31 1148 B- 31 1149 B- 2K 1150 B- 3K 1151 B- 3K 1152 B- 3J 1153 B- 3K 1154 B- 3J 1155 B- 3J 1155 B- 3J 1156 B- 3J 1157 B- 3J 1158 B- 3I 1159 B- 3G 1160 B- 3K 1160 B- 4H 1170 B- 4H 1770 B- 4G 1771 B- 3H 1772 B- 2I 1773 B- 4I 1774 B- 4I 1775 B- 2I 1776 B- 3I 1776 B- 3I 1777 B- 3I	R180 B-77 R182 B-86 R183 B-66 R184 B-86 R185 B-86 R186 B-87 R188 B-86 R187 B-86 R188 B-87 R189 B-76 R199 B-76 R199 B-76 R199 B-86 R199 B-76 R199 B	H R287 H R288 H R288 H R298 H R298 H R298 H R298 H R302 H R301 H R302 H R306 H R306 H R307 H R308 H R308 H R309 H R301 H R316 H R352 H R353 H R354 H R355 H R356 H R357 H R356 H R357 H R356 H R357 H R358 H R358 H R359 H R391 H R391 H R392 H R391 H R391 H R392 H R393 H R394 H R394 H R395 H R396 H	102020102815151515141313131415141515131313121215151515151515151515151515	C41 C42 C43 C44 C45 C46 C49 C50 C51 C52 C53 C54 C55 C56 C66 C67 C68 C67 C68 C67 C68 C67 C77 C82 C83 C84 C85 C86 C87 C88 C89 C90 C90 C91	B- 131 B- 15J B- 15K B- 14L B- 16K A- 16K A- 16G B- 16K A- 16K B- 13K B- 12L B- 12L B- 12L B- 11K	C359 C360 C366 C366 C367 C368 C370 C371 C372 C373 C374 C375 C376 C387 C388 C389 C380 C381 C382 C387 C388 C389 C391 C382 C387 C388 C389 C391 C392 C429 C461 C501 C502 C511 C512 C512 C512 C512 C513 C516 C511 C512 C512 C511 C512 C512 C511 C512 C512	2KF G4GGGGGGF F5GGF F3F F3 F	TP355 LC1 LC2 LC3 LC4 LC5 LC7 LC10 LC11 LC351 LC352 TB1 TB2 TB3 TB4 TB5 TB6 TH1 CN1 CN2 CN4 CN6 CN9 CN10 CN12 X1 X301	A- 13G	

4.17 RFP SCHEMATIC DIAGRAM [0]4 — DIAGRAM 1/5 —



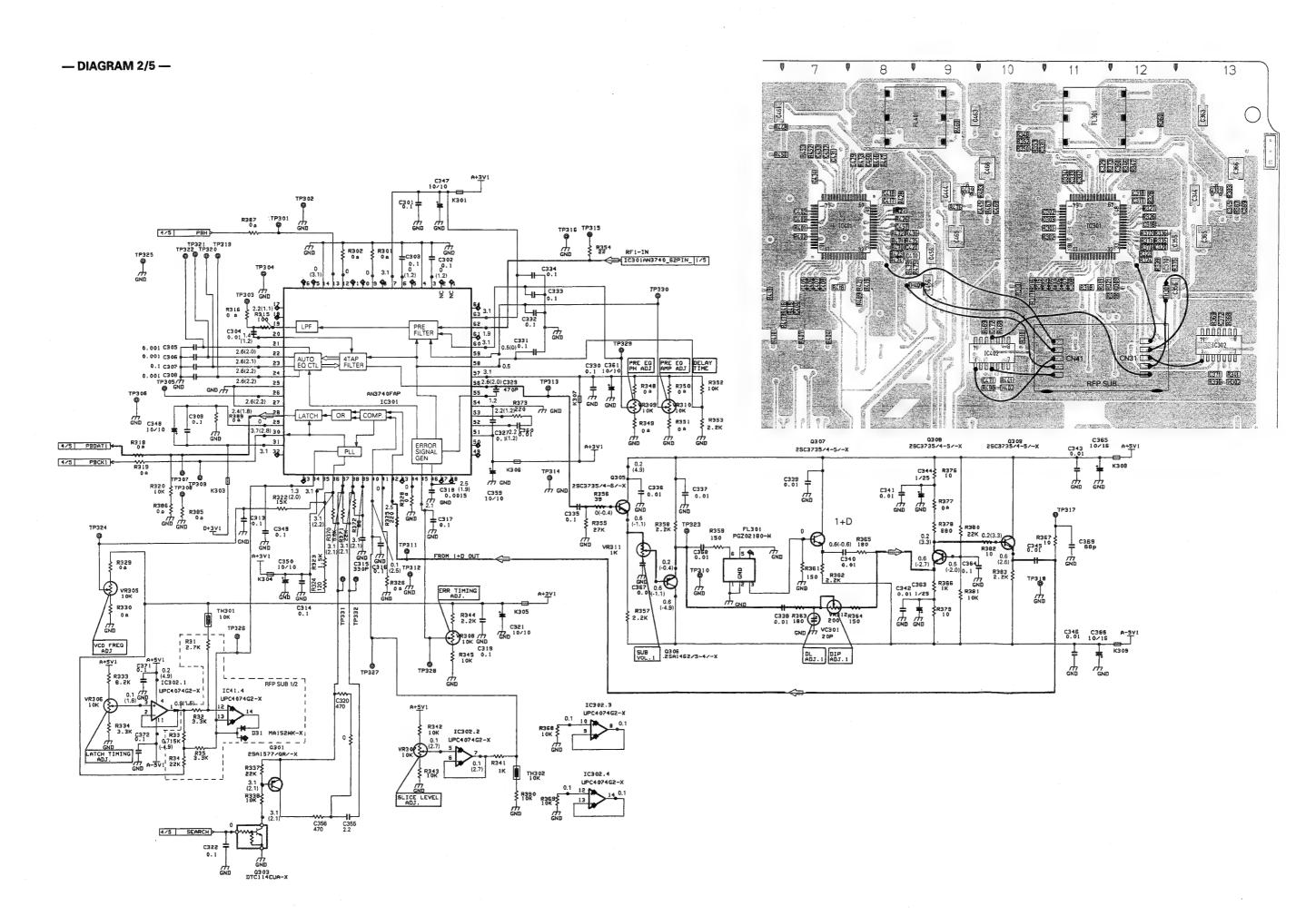
4.17 RFP SCHEMATIC DIAGRAM 014 — DIAGRAM 1/5 —

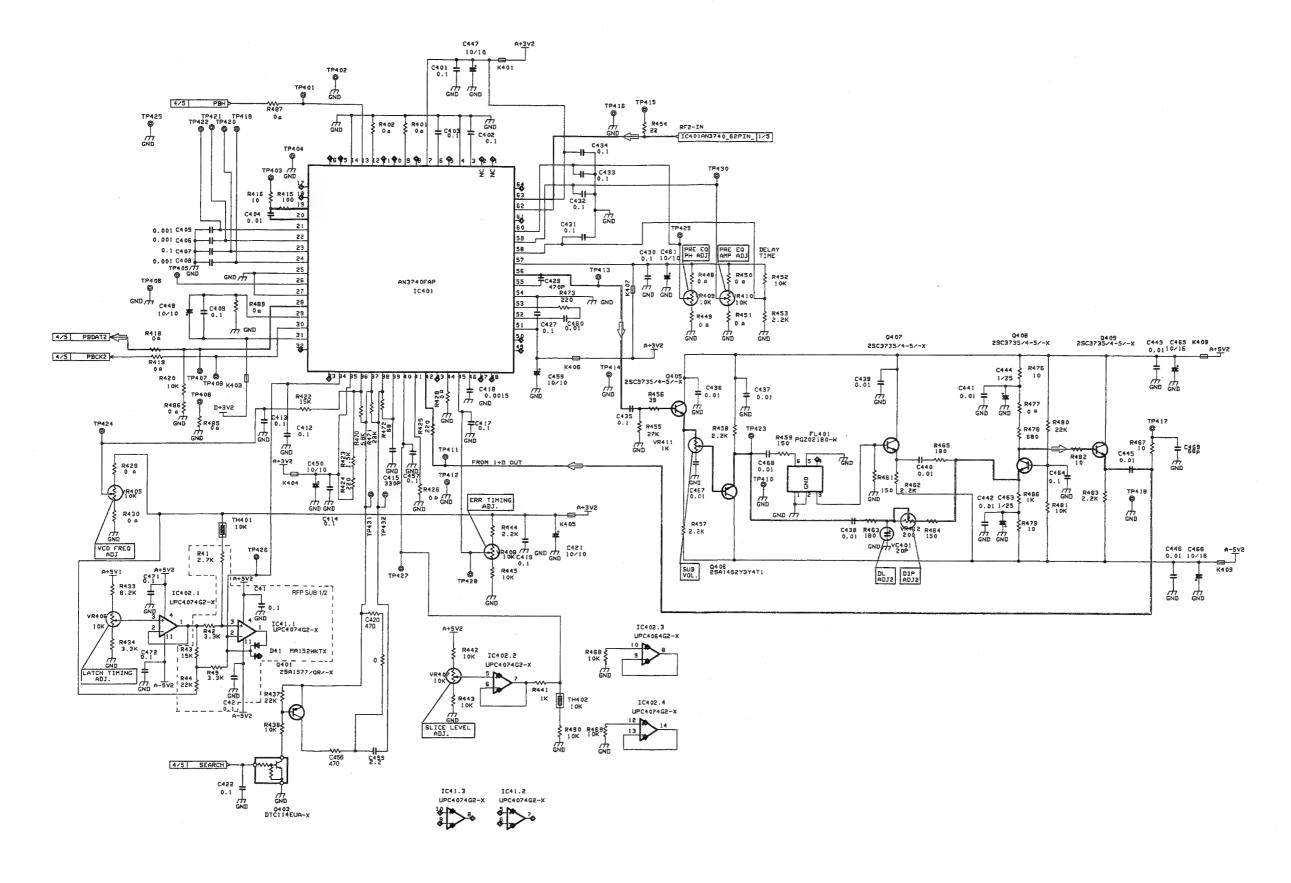


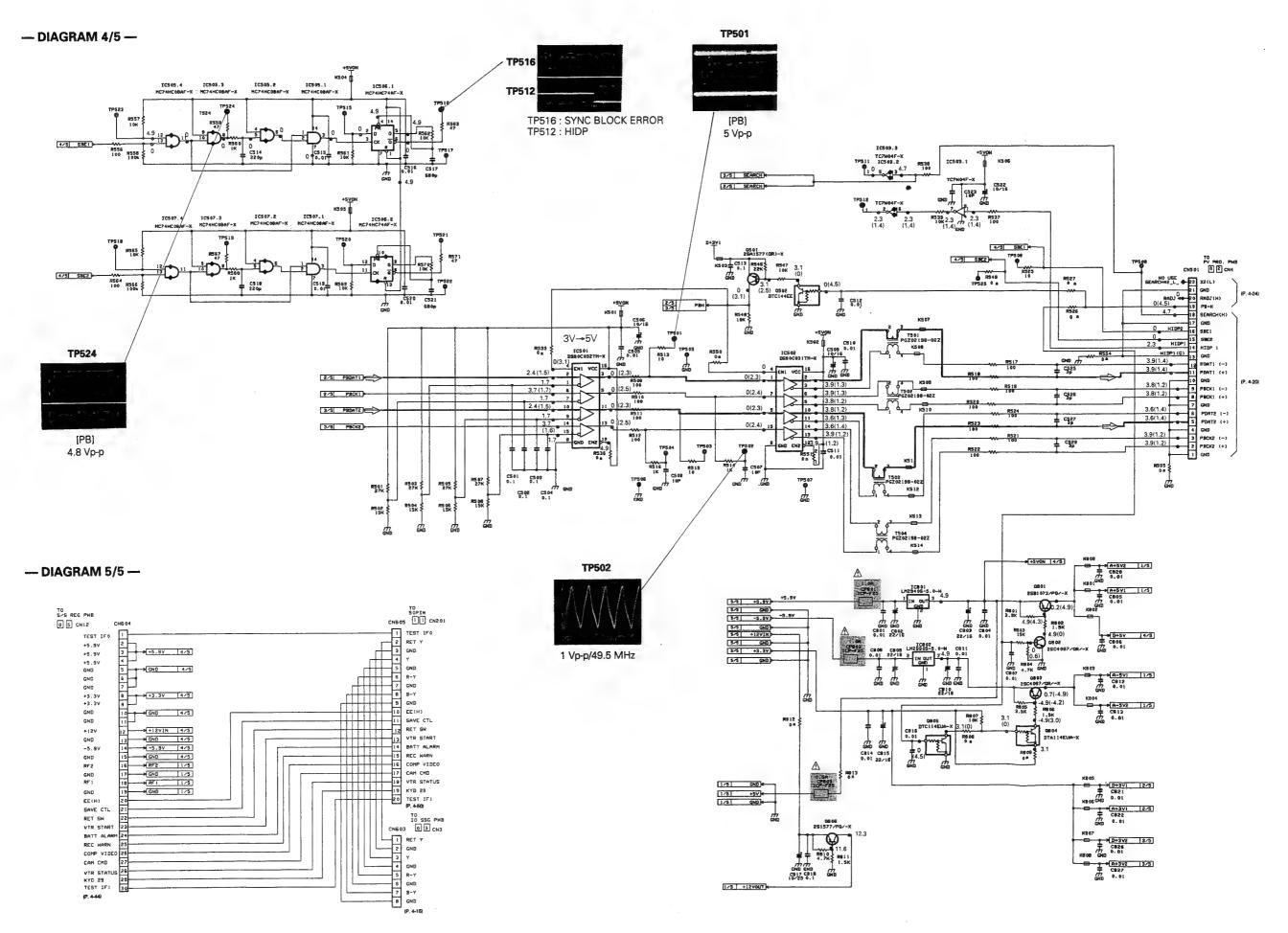
B- 13C B- 7C B- 7C B- 5E B- 5C B- 6C B- 16J 1 A- 13G 2 A- 12H A- 2L B- 16B B- 16L B- 16B B- 16L

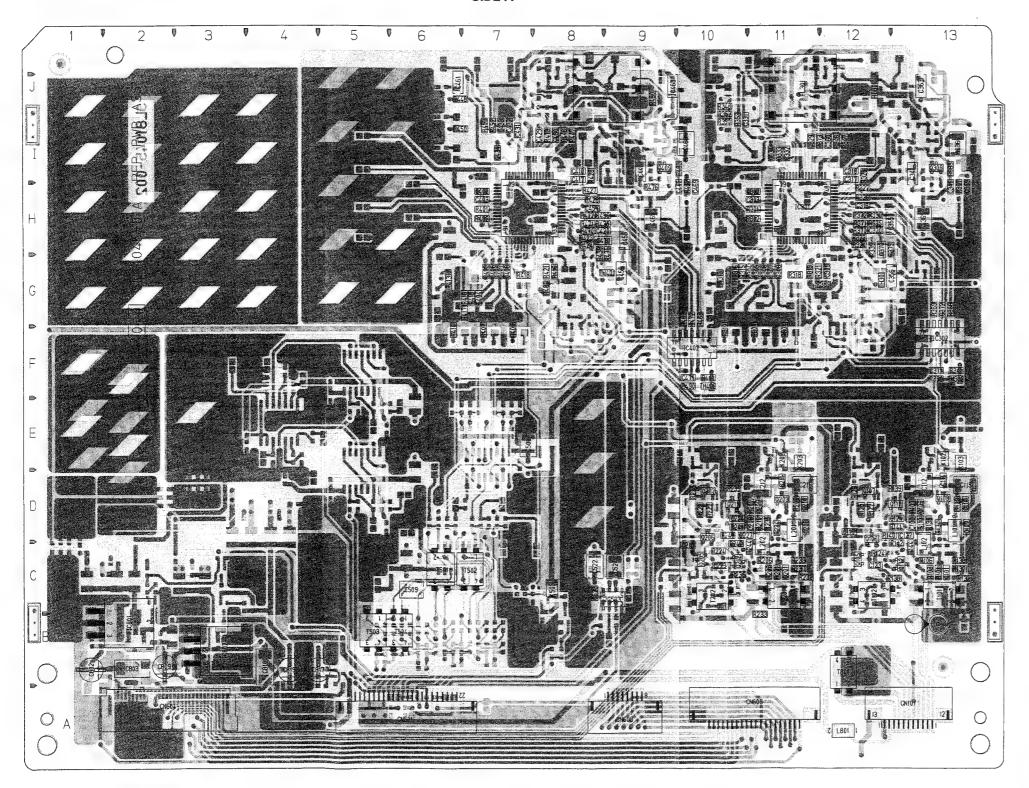
B- 15G

A- 16H A- 3A A- 7A A- 13A A- 2G A- 10A A- 15A A- 16C A- 13I A- 3B





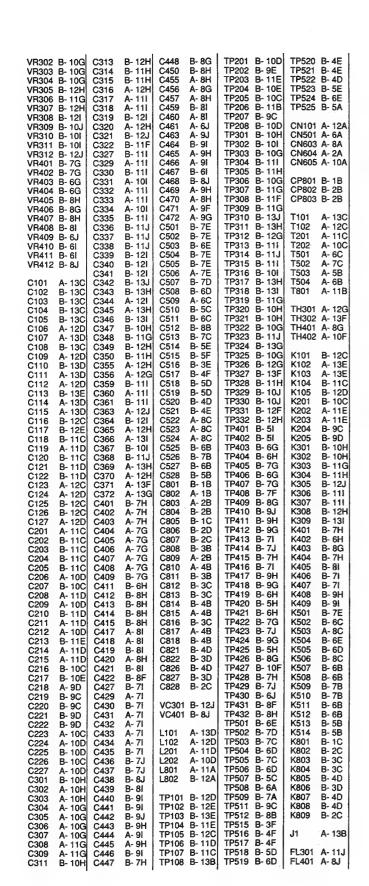


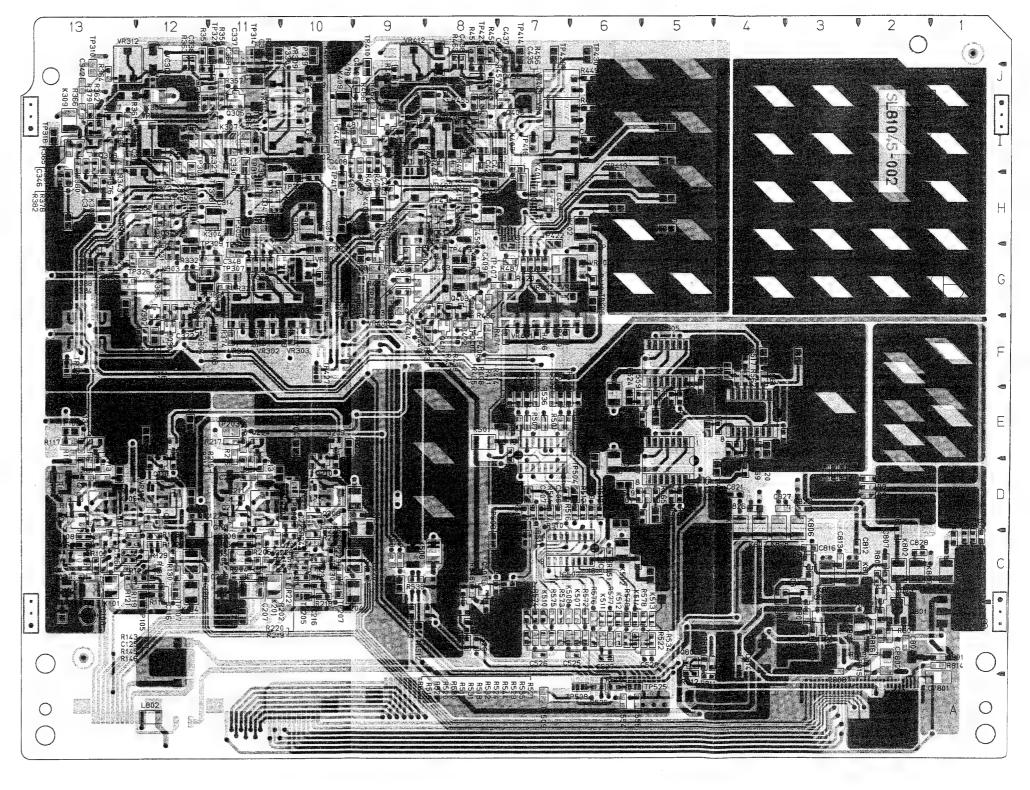


●ADDRESS TABLE OF BOARD PARTS
Each address may have an address error by one interval.

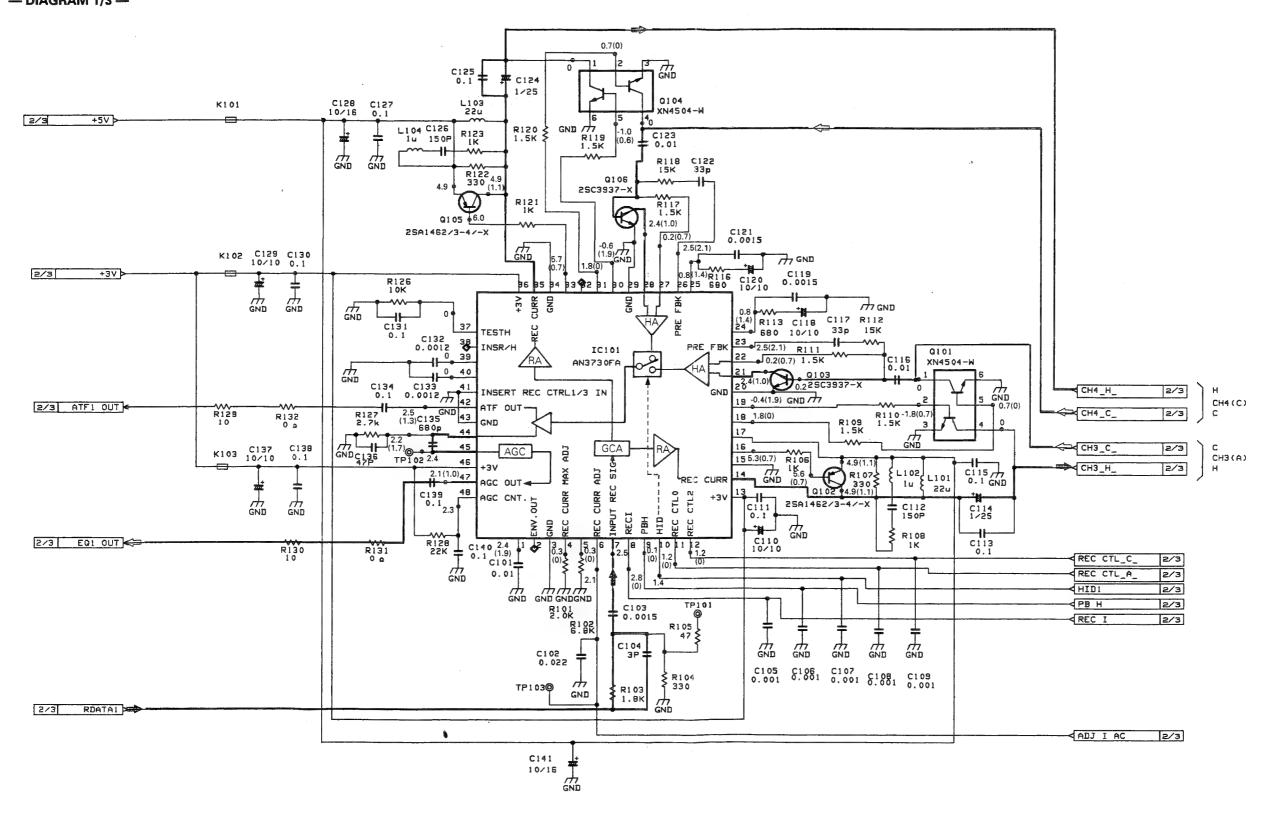


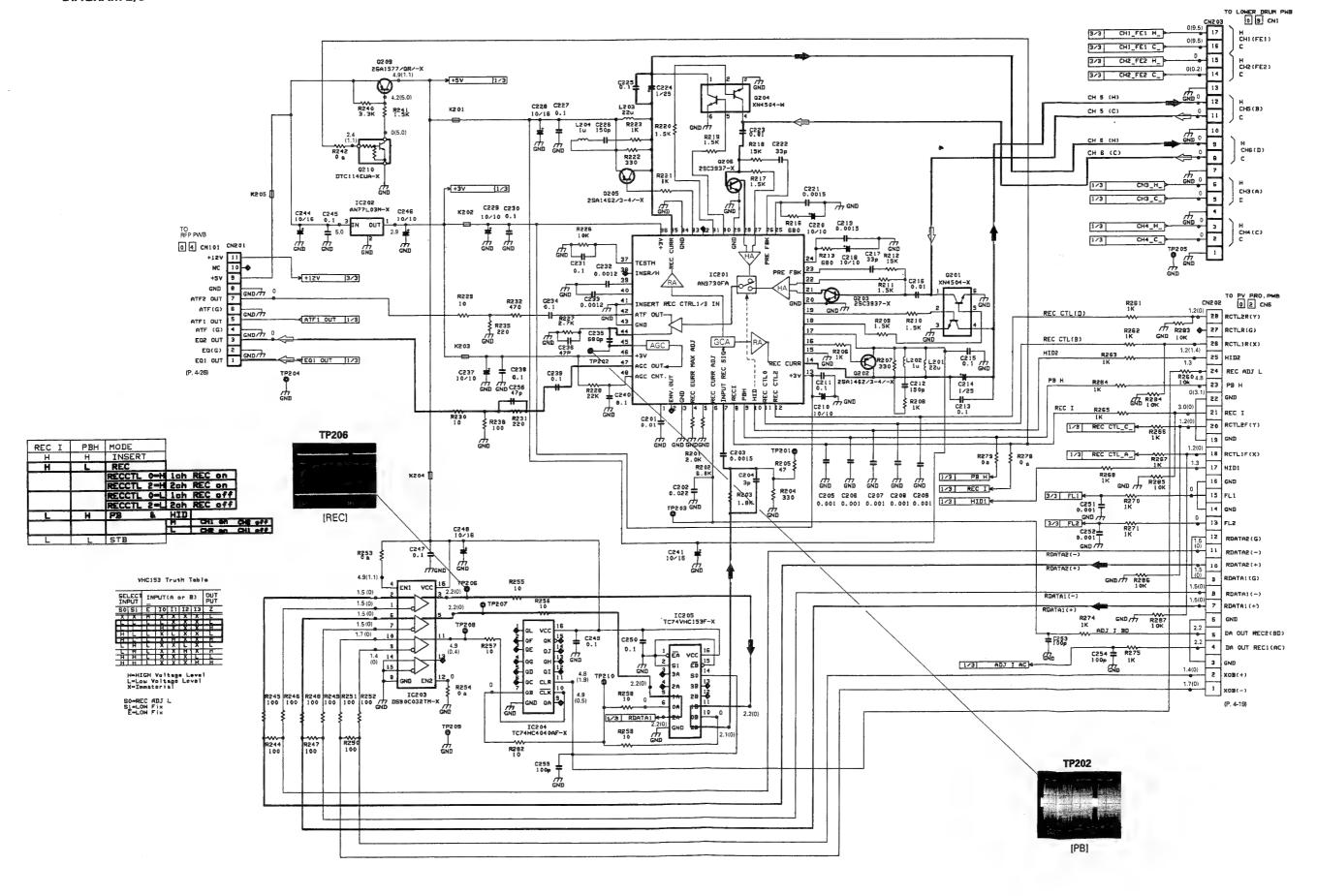
C301		_	— x a	IXIS							
Q307 B-12 R212 B-100 R355 B-11 R454 B-7 R557 B-5E R308 B-13 R214 B-11D R356 B-11 R455 B-8 R558 B-5E R309 A-13 R214 B-11D R357 B-11J R456 B-7 R559 B-5E R3010 A-12 R450 B-7 R559 B-5E R3010 A-12 R450 B-7 R559 B-5E R3010 A-12 R450 B-7 R559 B-5E R360 B-5E R360 A-12 R450 B-7 R560 B-5E R360 A-12 R458 B-7J R560 B-5E R360 A-12 R459 B-8J R566 B-4F R360 A-12 R459 B-8J R566 B-4F R360 A-12 R459 B-8J R566 B-4F R360 A-12 R450 A-9J R563 B-4F R360 A-12 R460 A-9J R563 B-4F R360 A-12 R461 B-8J R564 B-5D R365 B-13 R462 B-9J R565 B-5D R365 B-13 R464 B-9J R566 B-5D R365 B-13 R464 B-9J R566 B-5D R366 B-13 R465 B-9J R566 B-5D R360 A-12 R467 A-9H R567 B-5D R368 A-13G R466 B-9J R569 B-4E R369 R360 B-5D R360 A-13J R360 R36	IC302 IC401 IC402 IC501 IC502 IC503 IC505 IC506 IC507 IC801 IC802 Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q108 Q109 Q211 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211 Q212 Q301 Q202 Q303 Q304 Q305	A-12F A-7F B-6CC B-15E B-45E B-12D B-13E A-12D B-12E B-11D B	R114 R115 R116 R117 R118 R119 R120 R121 R122 R124 R125 R126 R127 R128 R130 R131 R132 R134 R135 R136 R137 R138 R137 R138 R144 R145 R146 R147 R147 R148 R149 R140 R141 R142 R143 R144 R145 R146 R147 R147 R148 R148 R149 R149 R140 R141 R141 R142 R143 R144 R145 R146 R147 R147 R148 R148 R149 R149 R140 R141 R141 R141 R141 R141 R141 R141	B- 13D B- 13E B- 13E B- 12C B- 12C B- 12C A- 12D B- 12C A- 12D B- 12C B-	R313 R314 R315 R316 R316 R317 R318 R319 R320 R321 R322 R323 R324 R325 R326 R327 R338 R334 R335 R334 R336 R337 R338 R334 R336 R341 R343 R344 R346 R347 R346 R347 R348 R349 R350 R350 R351 R351 R351 R351 R351 R351 R351 R351	A-10G GA-10G GA-10G GA-10G GA-10G GA-10G GA-10G GA-10G GA-11G GA-	R412 R413 R416 R416 R419 R420 R421 R422 R423 R424 R425 R427 R428 R429 R430 R431 R433 R434 R436 R437 R436 R437 R436 R437 R436 R437 R436 R437 R436 R437 R446 R448 R449 R445 R448 R448 R448 R448 R449 R448 R448 R448	6GGGGGGGGGGGGHHHHHHHHHHHHHHGGGGGGGGHHHGGGG	R510 R511 R512 R513 R514 R515 R516 R517 R519 R520 R521 R522 R523 R524 R525 R526 R527 R528 R529 R531 R534 R534 R534 R535 R534 R534 R535 R534 R535 R536 R537 R538 R539 R531 R534 R535 R536 R537 R538 R539 R531 R534 R535 R536 R537 R538 R539 R531 R534 R535 R536 R537 R538 R539 R531 R538 R539 R531 R538 R539 R531 R532 R533 R534 R535 R536 R537 R538 R539 R537 R538 R539 R537 R538 R539 R537 R538 R539 R537 R538 R539 R539 R531 R536 R537 R538 R539 R537 R538 R539 R537 R538 R539 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R531 R538 R539 R539 R531 R538 R539 R539 R531 R538 R539 R531 R538 R539 R539 R531 R538 R539 R539 R531 R538 R539 R539 R539 R539 R531 R538 R539 R539 R539 R539 R539 R539 R539 R539	6DDDDDDDDDDDBBBBBBBBBBBBBBBBBBBBBBBBBB	
	Q305 Q306 Q307 Q308 Q309 Q310 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q409 Q410 Q502 Q801 Q802 Q803 Q804 Q806 R1 R2 R3 R4 R5 R6 R7 R8 R9 R101 R102 R103 R104 R105 R106 R107 R108 R109 R111	B-111 B-1121 B-1	R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R222 R222 R223 R224 R225 R227 R228 R227 R228 R227 R233 R234 R233 R234 R236 R237 R238 R239 R231 R236 R237 R238 R239 R230 R231 R236 R237 R238 R239 R230 R231 R231 R232 R233 R234 R236 R237 R238 R239 R239 R230 R231 R231 R231 R231 R231 R231 R231 R231	A-10D B-11D B-11D B-11D B-11D B-11D B-11D B-11D B-10C	R353 R355 R356 R356 R357 R358 R359 R361 R362 R363 R365 R366 R367 R368 R367 R371 R372 R374 R377 R378 R377 R378 R379 R380 R377 R378 R378 R379 R380 R381 R382 R383 R384 R385 R386 R386 R387 R388 R388 R388 R388 R388 R388 R388	4-101 11-11	R452 R453 R454 R455 R455 R456 R461 R462 R463 R464 R466 R467 R468 R470 R471 R472 R473 R474 R477 R478 R478 R478 R481 R482 R484 R485 R488 R488 R488 R488 R488 R488	A A B B B B B B A B B B B B A A A A A A	R555 R556 R5567 R558 R559 R560 R561 R562 R563 R564 R566 R567 R566 R567 R570 R571 R572 R574 R575 R576 R577 R578 R579 R803 R804 R805 R806 R806 R807 R808 R809 R811 R815 R816 R815 R816 R816 R816 R816 R817 R816 R816 R816 R816 R816 R816 R816 R816	5AE5555555444500000000000000000000000000	

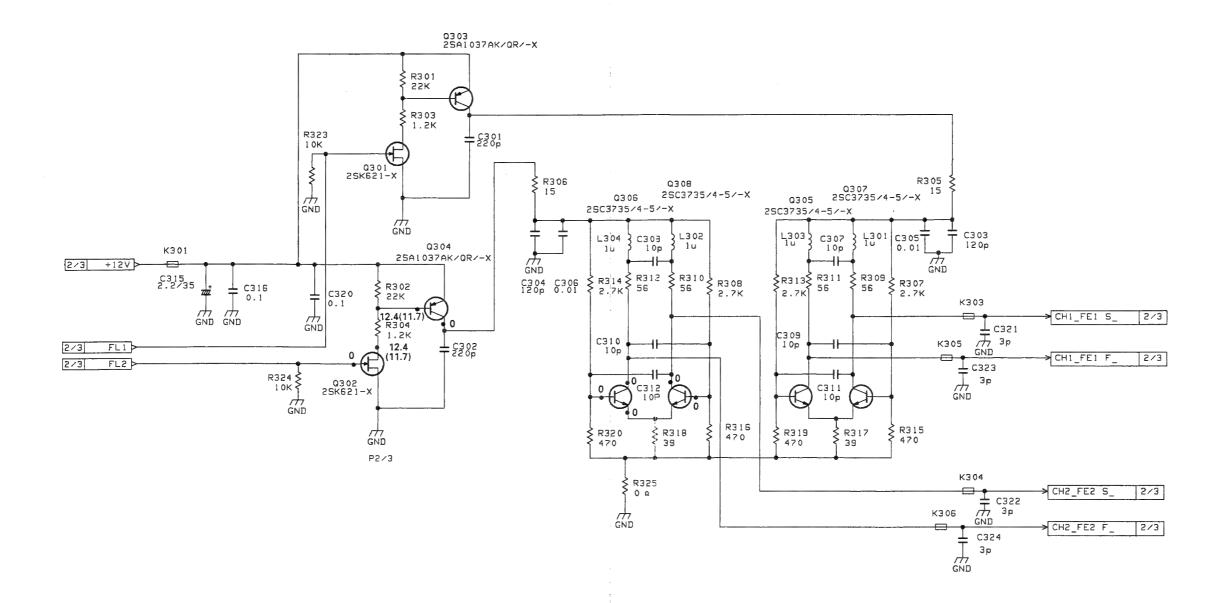




4.19 PRE/REC SCHEMATIC DIAGRAM 06 — DIAGRAM 1/3 —

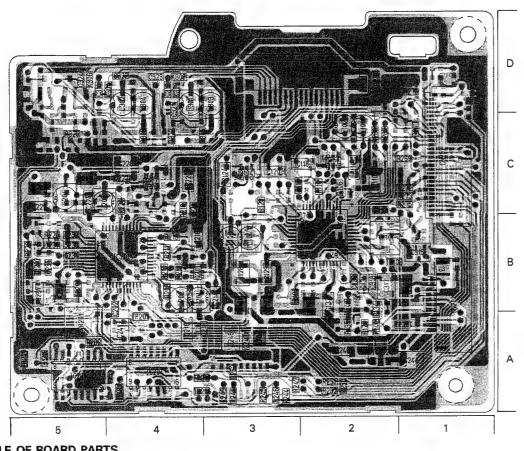


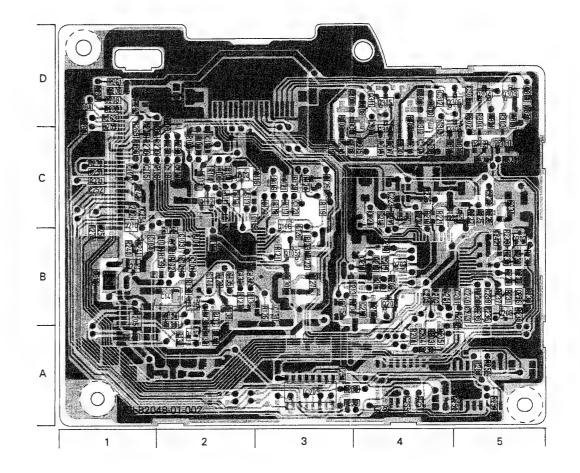




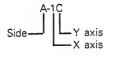
— SIDE A —





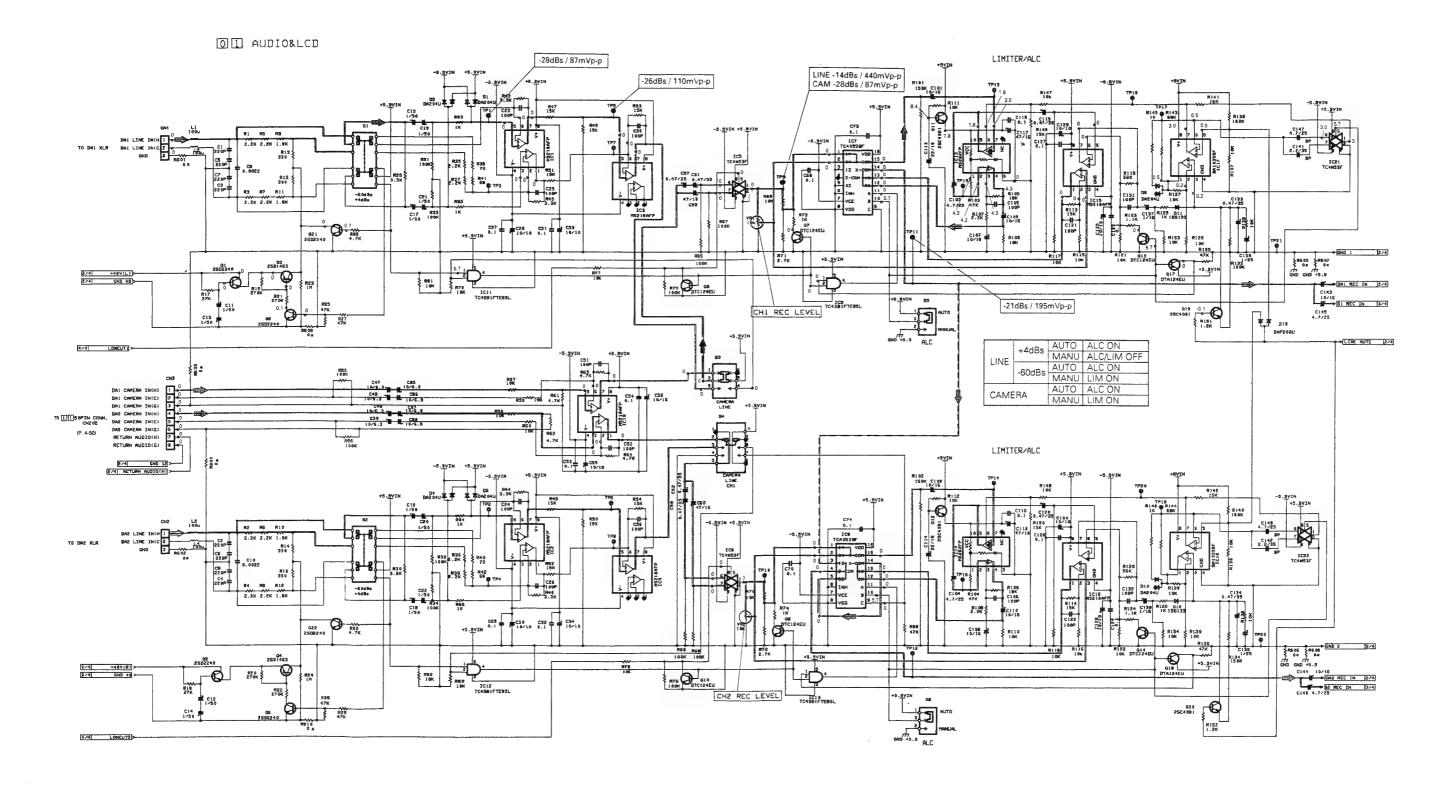


●ADDRESS TABLE OF BOARD PARTS
Each address may have an address error by one interval.

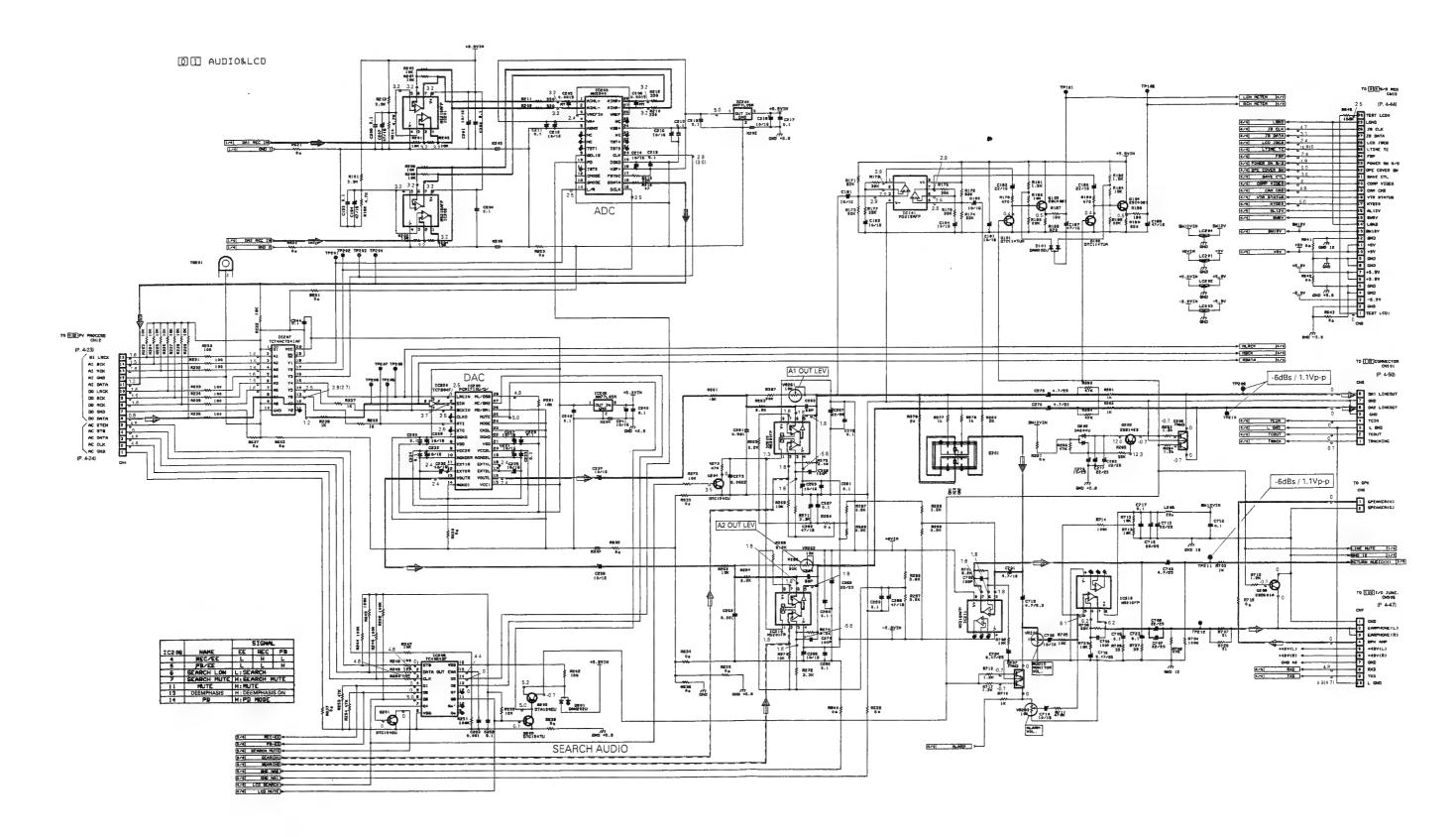


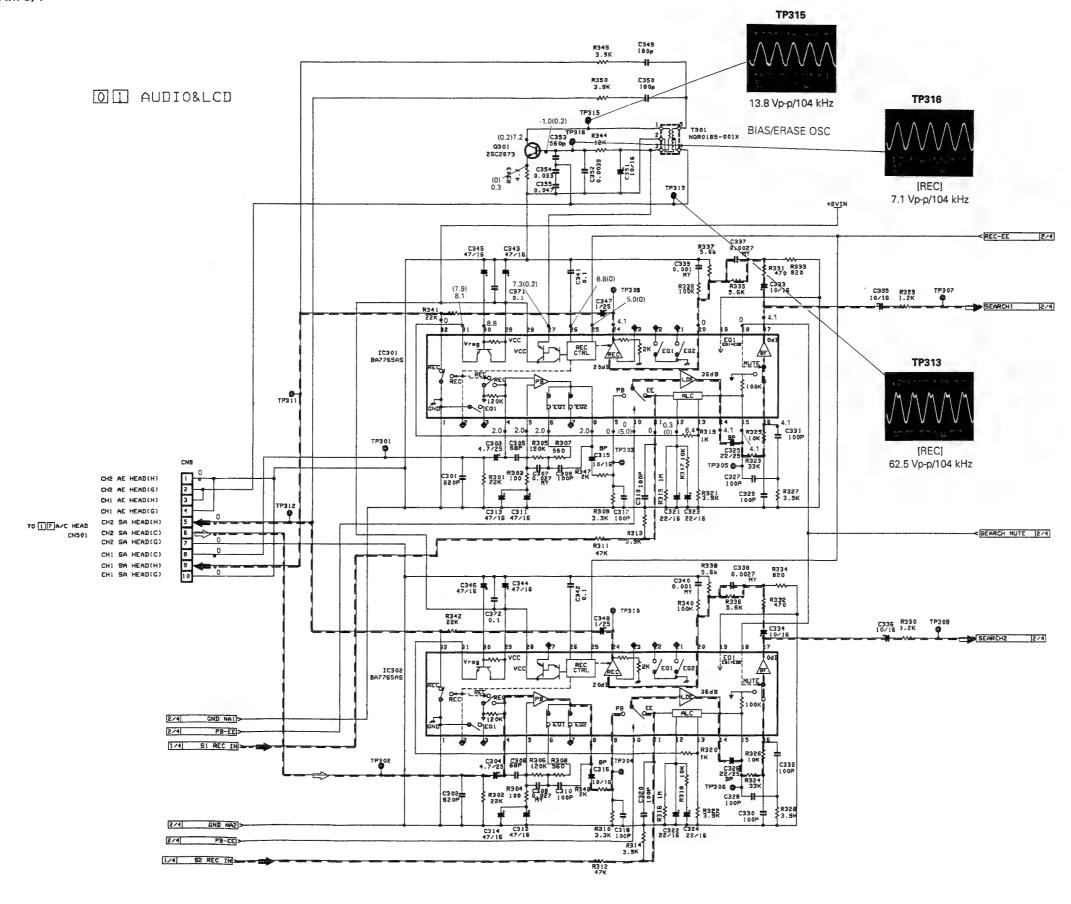
Cloud A - 2B R101 B - 2B R135 A - 2A R229 A - 5B R264 B - 10 R310 B - 40 C115 B - 2C C206 B - 2D C240 B - 5B C318 A - 2B CN201 A - 1B C10202 A - 2A R103 B - 2B R133 B - 2B R233 B - 5B R265 B - 1C R311 B - 4C C117 B - 2C C208 B - 1D C242 B - 5B C320 A - 4D CN202 A - 1D C10203 B - 3A R104 B - 2B R133 B - 2B R233 B - 5B R265 B - 1C R312 B - 4C C117 B - 2C C208 B - 1D C242 B - 5B C322 A - 4D C10204 A - 4A R105 B - 2B R133 B - 2B R233 B - 5B R265 B - 1C R313 B - 3C C118 A - 2C C209 B - 1D C242 B - 5B C322 A - 4D C10204 A - 4A R105 B - 2B R133 B - 2B R233 B - 5B R266 B - 1C R313 B - 3C C118 A - 4C C210 A - 4A C244 A - 1A C323 A - 4D C10204 A - 4A R105 B - 2C R201 A - 4A R234 B - 5B R266 B - 1C R315 B - 4C C119 B - 3C C210 A - 4A C244 A - 1A C323 A - 4D K102 A - 4D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C245 B - 1A C324 A - 5D C10204 A - 4A C324 A - 5D																						
C2020	10101	A 20	D101	B 2B	D125	A- 2A	Poo	A. 58	B363	R. 10	R310	B. AD	C115	B- 2C	C206	B- 2D	C240	R- 5R	C318	A. 2B	CN201	A- 1R
Color Colo																						
C2023 B-3A R104																						
C2026																						
1.20															C210	A- 4A	C244	A- 1A	C323	A- 4D	K101	A- 3B
R107 R-2C R201 R-4B R235 R-5B R269 R-1C R316 R-5C C121 R-3C C212 R-4B C246 R-2A C101 R-2C R010 R-2C R108 R-2C R203 R-4A R237 R-5B R270 R-1C R318 R-5C C123 R-3C C213 R-4B C247 R-3A L101 R-2C C202 R-2C R010 R-2C R010 R-2C R010 R-4C R204 R-4A R237 R-5B R271 R-4C C215 R-3B C215 R-4B C247 R-3A L102 R-2C C203 R-4A L101 R-2C R206 R-4B R238 R-5B R272 R-1C R318 R-5C C123 R-3C C215 R-3B C248 R-3A L102 R-2C C202 R-2C C203 R-4A R239 R-2C R208 R-4A R239 R-4A R234 R-4A												B- 4C	C120	A- 3C	C211	A- 4A	C245	B- 1A	C324	A- 5D	K102	A- 3B
Color Colo							R235	B- 5B	R269	A- 1C	R316	B- 5C	C121	B- 3C	C212	B- 4B	C246	A- 2A		- 1	K103	
0103 B - 2C R110 A - 2C R204 B - 4A R238 B - 5B R272 A - 1C R319 B - 3C C124 A - 3C C215 B - 3B C249 B - 4A L103 A - 3B K204 A - 3A R209 B - 4B R239 B - 4A R239 B - 4B R244 B - 1B R274 B	Q101	A- 2C	R108	B- 2C	R202	B- 4B	R236	B- 5B	R270	B- 1C	R317	B- 4C							L101			
104 A - 3C R111 B - 2C R205 B - 4A R239 B - 4A R239 B - 4A R273 A - 1C R320 B - 4C C125 B - 3C C216 B - 4B C250 B - 5A C104 A - 3B C204 A - 3A C105 B - 3B R112 B - 2C R206 A - 4B R240 B - 1B R275 A - 1C R320 B - 4C C127 B - 3B C217 B - 4B C251 B - 1C L202 A - 4B K301 B - 1B R37 A - 1C R320 A - 4C C127 B - 3B C218 A - 4B C251 B - 1C L202 A - 4B K301 B - 1B R37 A - 1C R324 B - 1C R324 A - 3A R34 R34 A - 3A R34 R34 A - 3A R34 A - 3A R34 A - 3A R34 R34 A - 3A	Q102	B- 2C	R109	B- 2C	R203																	
Right Righ	Q103																					
Q106 B-38 R113 A-30 R207 B-48 R241 B-18 R275 A-10 R322 A-40 C127 B-38 C218 A-48 C252 B-10 L202 A-48 K301 B-18 C108 B-28 R115 B-20 R208 B-48 R242 B-10 R276 A-10 R323 B-50 C128 A-38 C229 B-48 C253 B-18 L203 A-50 C128 A-18 C254 B-16 C255 B-44 C255 B-44 C255 B-44 C255 B-44 C255 B-45 C228 B-40 C255 B-46																						
Right Righ																						
Record R																						
Q201 A- 4B R116 B- 3C R210 A- 4B R244 A- 3A R278 B- 1C R325 A- 5C C130 B- 3B C221 A- 4C C255 B- 4A L301 A- 4D K304 A- 4D Q202 B- 4B R117 B- 3C R211 A- 4B R245 A- 3A R279 B- 2C C131 B- 3B C222 B- 4C C256 B- 5B L302 A- 4D K305 A- 4D K306 A- 4D K305 A- 4D K306 A- 4D K305 A- 4D K306 A- 5D C221 A-																						
Q202 B - 4B R117 B - 3C R211 A - 4B R245 A - 3A R279 B - 2C C131 B - 3B C222 B - 4C C256 B - 5B L302 A - 4D K305 A - 4D Q203 B - 4B R118 B - 3C R212 B - 4B R246 A - 3A R280 B - 5C C132 B - 2C C223 B - 4C C301 B - 5D L303 A - 3D K306 A - 5D Q205 B - 5C R120 A - 3C R213 A - 4B R247 A - 3A R281 B - 5D VR101 A - 5A L304 A - 4D K306 A - 5D Q205 B - 5C R120 A - 3C R214 A - 4B R248 A - 3A R283 B - 1D C101 B - 2B C225 B - 5C C302 B - 5D L304 A - 4D Q207 B - 5B R122 B - 3B R216 A - 4C R250 A - 2A R2828 B - 1D C101																						
Q203 B - 4B R118 B - 3C R212 B - 4B R246 A - 3A R280 B - 5B VR101 A - 2B C132 B - 2B C223 B - 4C C301 B - 5D L303 A - 3D K306 A - 5D Q204 A - 4C R119 B - 3C R213 A - 4B R247 A - 3A R281 B - 5A VR201 A - 5A C133 B - 2B C224 A - 5C C301 B - 5D L303 A - 4D Q205 B - 5C R120 A - 3C R214 A - 4B R248 A - 3A R282 A - 5A C134 A - 2B C225 B - 5C C303 B - 4C TP101 A - 2C C134 A - 2B C225 B - 5C C303 B - 4C TP101 A - 2C C134 A - 2B C225 A - 4C C305 B - 4C R250 A - 2A R288 B - 1D C102 B - 2B C137 A - 2B C226 B - 5C C306 B - 4C TP1											H325	A- 50										
Q204 A- 4C R119 B- 3C R213 A- 4B R247 A- 3A R281 B- 5A VR201 A- 5A C133 B- 2B C224 A- 5C C302 B- 5D L304 A- 4D Q205 B- 5C R120 A- 3C R214 A- 4B R248 A- 3A R282 A- 5A C134 A- 2B C225 B- 5C C303 B- 4C C134 A- 2B C225 B- 5C C303 B- 4C C134 A- 2B C225 B- 5C C303 B- 4C C134 A- 2B C225 B- 5C C304 B- 4C C135 B- 2B C226 B- 5C C304 B- 4C TP101 A- 2C C135 B- 2B C227 A- 4C C305 B- 4C TP101 A- 2A R286 B- 1D C102 B- 2B C135 B- 2B C227 A- 4C C306 B- 4C TP101 A- 2A R286 A- 2C C104 B- 1B C138 B- 2B C227 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>VD101</td><td>A 2D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											VD101	A 2D										
Q205 B- 5C R120 A- 3C R214 A- 4B R248 A- 3A R282 A- 5A C206 B- 5C C303 B- 4C C306 B- 4C																					14000	A- 3D
Q206 B - 4C R121 B - 3B R215 B - 4B R249 A - 3A R283 B - 1D C101 B - 2B C135 B - 2B C226 B - 5C C304 B - 4C TP101 A - 2C Q207 B - 5B R122 B - 3B R216 A - 4C R250 A - 2A R284 B - 1D C102 B - 2B C136 B - 2B C227 A - 4C C305 B - 4C TP101 A - 2B Q208 B - 5B R123 B - 3B R217 B - 4C R251 A - 2A R285 B - 1D C103 B - 2B C137 A - 2B C228 A - 4C C306 B - 4C TP103 A - 2B Q209 B - 1B R124 B - 3C R218 B - 4C R252 A - 2A R286 A - 2C C104 B - 1B C138 B - 2B C229 A - 5C C307 B - 4B TP201 A - 4A Q210 B - 1B R125 B - 3C R218											¥11201	A- 3A							2004	~ 75		
Q207 B-5B R122 B-3B R216 A-4C R250 A-2A R284 B-1D C102 B-2B C136 B-2B C227 A-4C C305 B-4C TP102 A-3B Q208 B-5B R123 B-3B R217 B-4C R251 A-2A R285 B-1D C103 B-2B C137 A-2B C228 A-4C C306 B-4C TP103 A-2B Q209 B-1B R124 B-3C R218 B-4C R252 A-2A R286 A-2C C104 B-1B C138 B-2B C229 A-5C C307 B-4D TP201 A-4A Q306 B-5C R126 B-3B R220 A-4C R254 B-3A R301 B-5D C106 B-2C C140 B-2B C320 B-5C C308 B-4D TP201 A-5A Q308 B-5C R127 B-2B R221 B-4C R255 B-4A R302 B-5D C106 B-2C C140 B-2B C320 B-5C C308 B-4D TP203 A-5B Q303 B-5C R127 B-2B R221 B-4C R255 B-4A R302 B-5D C106 B-2C C140 B-2B C32 A-5B C310 B-4C TP203 A-5B Q304 B-5D R128 B-2B R222 B-5C R256 B-4A R303 B-5D C108 B-2C C142 B-2A C233 A-5B C310 B-4C TP204 A-1A Q306 B-5D R129 A-2A R223 B-5C R257 B-4A R304 B-5D C109 B-2C C142 B-2A C233 A-5B C311 B-4D TP205 A-2D Q304 B-5D R129 A-2A R223 B-5C R257 B-4A R304 B-5D C109 B-2C C142 B-2A C233 A-5B C312 B-4D TP205 A-4D Q305 B-4D R130 B-2A R223 B-5C R258 B-5A R305 A-4C C110 A-2C C201 B-5B C315 A-5B C312 B-4D TP206 A-4A Q306 B-5D R131 B-2B R225 B-4C R259 B-5A R306 A-4C C110 B-2B C202 A-4B C236 B-5B C315 A-5B TP209 A-5A Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A											C101	R- 2R							TP101	A- 2C		
Q208 B - 5B R123 B - 3B R217 B - 4C R251 A - 2A R285 B - 1D C103 B - 2B C137 A - 2B C228 A - 4C C306 B - 4C TP103 A - 2B Q209 B - 1B R124 B - 3C R218 B - 4C R252 A - 2A R286 A - 2C C104 B - 1B C138 B - 2B C229 A - 5C C307 B - 4D TP201 A - 4A Q210 B - 1B R125 B - 3C R219 B - 4C R253 A - 3A R287 A - 2C C105 B - 1D C139 A - 2B C230 B - 5C C308 B - 4D TP201 A - 5B Q301 B - 5C R126 B - 3B R220 A - 4C R254 B - 3B R201 B - 4C R254 B - 3B R201 B - 4C R254 B - 3B R201 B - 4C R254 B - 4C R254 B - 4C R254 B - 4C R254 B - 4C <td></td>																						
Q209 B- 1B R124 B- 3C R218 B- 4C R252 A- 2A R286 A- 2C C104 B- 1B C138 B- 2B C229 A- 5C C307 B- 4D TP201 A- 4A Q210 B- 1B R125 B- 3C R219 B- 4C R253 A- 3A R287 A- 2C C105 B- 1C C139 A- 2B C230 B- 5C C308 B- 4D TP201 A- 5B Q301 B- 5C R126 B- 3B R220 A- 4C R254 B- 3A R301 B- 5D C106 B- 2C C140 B- 2B C231 A- 5B C309 B- 4C TP203 A- 5B Q302 B- 5C R127 B- 2B R221 B- 4C R255 B- 4A R302 B- 5D C106 B- 2C C140 B- 2B C232 A- 5B C309 B- 4C TP204 A- 1A Q303 B- 5D R128 B- 2B R222 B- 5C R256 <td></td>																						
Q210 B- 1B R125 B- 3C R219 B- 4C R253 A- 3A R287 A- 2C C105 B- 1C C139 A- 2B C230 B- 5C C308 B- 4D TP202 A- 5B C301 B- 5C R126 B- 3B R220 A- 4C R254 B- 3A R301 B- 5D C106 B- 2C C140 B- 2B C231 A- 5B C310 B- 4C TP203 A- 5B C310 B- 4C TP204 A- 1A C303 B- 5D R128 B- 2B R222 B- 5C R256 B- 4A R303 B- 5D C107 B- 1C C141 B- 2B C232 A- 5B C310 B- 4C TP204 A- 1A C303 B- 5D R128 B- 2B R222 B- 5C R256 B- 4A R303 B- 5D C108 B- 2C C142 B- 2A C233 A- 5B C311 B- 4D TP205 A- 2D C304 B- 5D R129 A- 2A R223 B- 5C R257 B- 4A R304 B- 5D C109 B- 2C C143 A- 2B C234 A- 5B C312 B- 4D TP205 A- 2D C304 B- 5D R130 B- 2A R224 B- 4C R258 B- 5A R305 A- 4C C110 A- 2C C201 B- 5B C235 A- 5B C313 A- 4D TP207 A- 4A C308 B- 5D R131 B- 2B R225 B- 4C R259 B- 5A R306 B- 4C C111 B- 2B C202 A- 4B C236 B- 5B C314 A- 5D TP208 A- 4A C307 B- 4C R132 B- 2A R226 A- 5B R260 B- 1C R307 B- 3D C112 B- 2C C204 B- 4A C238 B- 5B C316 B- 1B TP209 A- 5A C308 B- 5C R133 B- 2A R227 B- 5B R261 B- 1D R308 B- 4D C113 B- 2C C204 B- 4A C238 B- 5B C316 B- 1B TP210 A- 5A											C104	B- 1B	C138	B- 2B	C229	A- 5C	C307	B- 4D	TP201	A- 4A		
Q302 B-5C R127 B-2B R221 B-4C R255 B-4A R302 B-5D C107 B-1C C141 B-2B C232 A-5B C310 B-4C TP204 A-1A Q303 B-5D R128 B-2B R222 B-5C R256 B-4A R303 B-5D C108 B-2C C142 B-2A C233 A-5B C311 B-4D TP205 A-2D Q304 B-5D R129 A-2A R223 B-5C R257 B-4A R304 B-5D C109 B-2C C143 A-2B C234 A-5B C311 B-4D TP206 A-4A Q305 B-4D R130 B-2A R224 B-4C R258 B-5A R305 A-4C C110 A-2C C201 B-5B C235 A-5B C313 A-4D TP207 A-4A Q306 B-5D R131 B-2B R225 B-4C R259 B-5A R306 A-4C C111 B-2B C202 A-4B C236 B-5B C314 A-5D TP208 A-4A Q307 B-4C R132 B-2A R226 A-5B R260 B-1C R307 B-3D C112 B-2C C203 B-4B C237 A-5B C315 A-5B C315 A-5B R260 B-5D R133 B-2A R226 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A												B- 1C	C139	A- 2B	C230	B- 5C	C308	B- 4D	TP202	A- 5B		
Q303 B-5D R128 B-2B R222 B-5C R256 B-4A R303 B-5D C108 B-2C C142 B-2A C233 A-5B C311 B-4D TP205 A-2D Q304 B-5D R129 A-2A R223 B-5C R257 B-4A R304 B-5D C109 B-2C C143 A-2B C234 A-5B C312 B-4D TP206 A-4A Q305 B-4D R130 B-2A R224 B-4C R258 B-5A R305 A-4C C110 A-2C C201 B-5B C235 A-5B C313 A-4D TP207 A-4A Q306 B-5D R131 B-2B R225 B-4C R259 B-5A R306 A-4C C111 B-2B C202 A-4B C236 B-5B C314 A-5D TP208 A-4A Q307 B-4C R132 B-2A R226 A-5B R260 B-1C R307 B-3D C112 B-2C C203 B-4B C237 A-5B C314 A-5D TP208 A-5A Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP209 A-5A	Q301	B- 5C	R126	B- 3B	R220	A- 4C	R254	B- 3A	R301	B- 5D	C106	B- 2C	C140	B- 2B				B- 4C	TP203	A- 5B		
Q304 B-5D R129 A-2A R223 B-5C R257 B-4A R304 B-5D C109 B-2C C143 A-2B C234 A-5B C312 B-4D TP206 A-4A Q305 B-4D R130 B-2A R224 B-4C R258 B-5A R305 A-4C C110 A-2C C201 B-5B C235 A-5B C313 A-4D TP207 A-4A Q306 B-5D R131 B-2B R225 B-4C R259 B-5A R306 A-4C C111 B-2B C202 A-4B C236 B-5B C314 A-5D TP208 A-4A Q307 B-4C R132 B-2A R226 A-5B R260 B-1C R307 B-3D C112 B-2C C203 B-4B C237 A-5B C315 A-5D TP208 A-4A Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A	Q302	B- 5C	R127	B- 2B	R221		R255	B- 4A	R302		C107											
Q305 B- 4D R130 B- 2A R224 B- 4C R258 B- 5A R305 A- 4C C110 A- 2C C201 B- 5B C235 A- 5B C313 A- 4D TP207 A- 4A Q306 B- 5D R131 B- 2B R225 B- 4C R259 B- 5A R306 A- 4C C111 B- 2B C202 A- 4B C236 B- 5B C314 A- 5D TP208 A- 4A Q307 B- 4C R132 B- 2A R226 A- 5B R260 B- 1C R307 B- 3D C112 B- 2C C203 B- 4B C237 A- 5B C315 A- 1B TP209 A- 5A Q308 B- 5C R133 B- 2A R227 B- 5B R261 B- 1D R308 B- 4D C113 B- 2C C204 B- 4A C238 B- 5B C316 B- 1B TP210 A- 5A	Q303	B- 5D	R128	B- 2B	R222																	
Q306 B-5D R131 B-2B R225 B-4C R259 B-5A R306 A-4C C111 B-2B C202 A-4B C236 B-5B C314 A-5D TP208 A-4A Q307 B-4C R132 B-2A R226 A-5B R260 B-1C R307 B-3D C112 B-2C C203 B-4B C237 A-5B C315 A-1B TP209 A-5A Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A																						
Q307 B-4C R132 B-2A R226 A-5B R260 B-1C R307 B-3D C112 B-2C C203 B-4B C237 A-5B C315 A-1B TP209 A-5A Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A																						
Q308 B-5C R133 B-2A R227 B-5B R261 B-1D R308 B-4D C113 B-2C C204 B-4A C238 B-5B C316 B-1B TP210 A-5A																						
4000 2 00 11100 2 21 1121 2 02 1121 2 12 1100 2 12 2 12 2 12 2 12 2 12 2 12 2 12 12 1																						
H134	Q308	B- 5C																	11210	A- 5A		
			H134	A- 2B	H228	R- 2R	H262	B- 10	H309	B- 40	U114	A- 20	C205	D- 10	0239	D- 3B	031/	A- 2B				

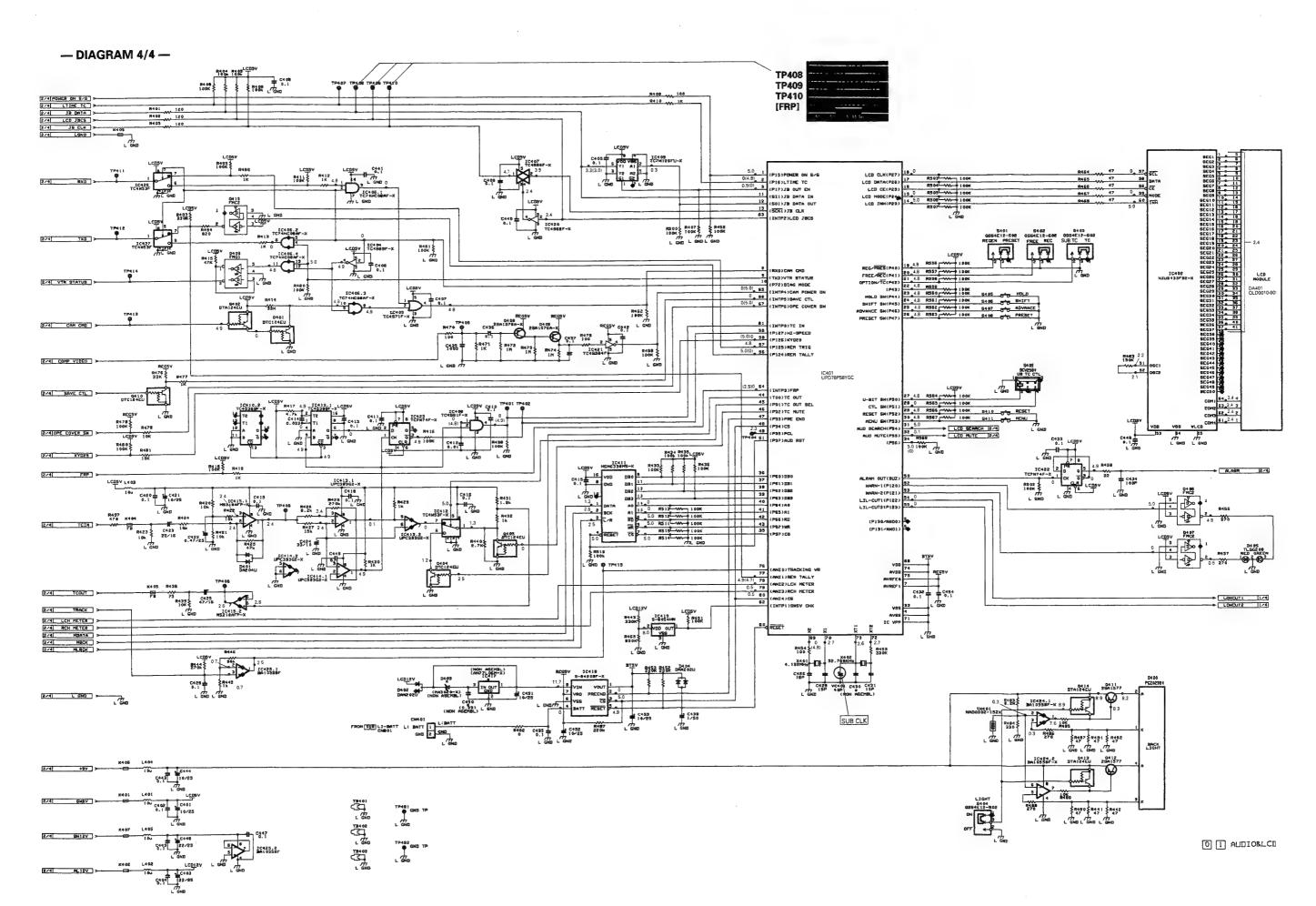
4.21 AUDIO & LCD SCHEMATIC DIAGRAM 1

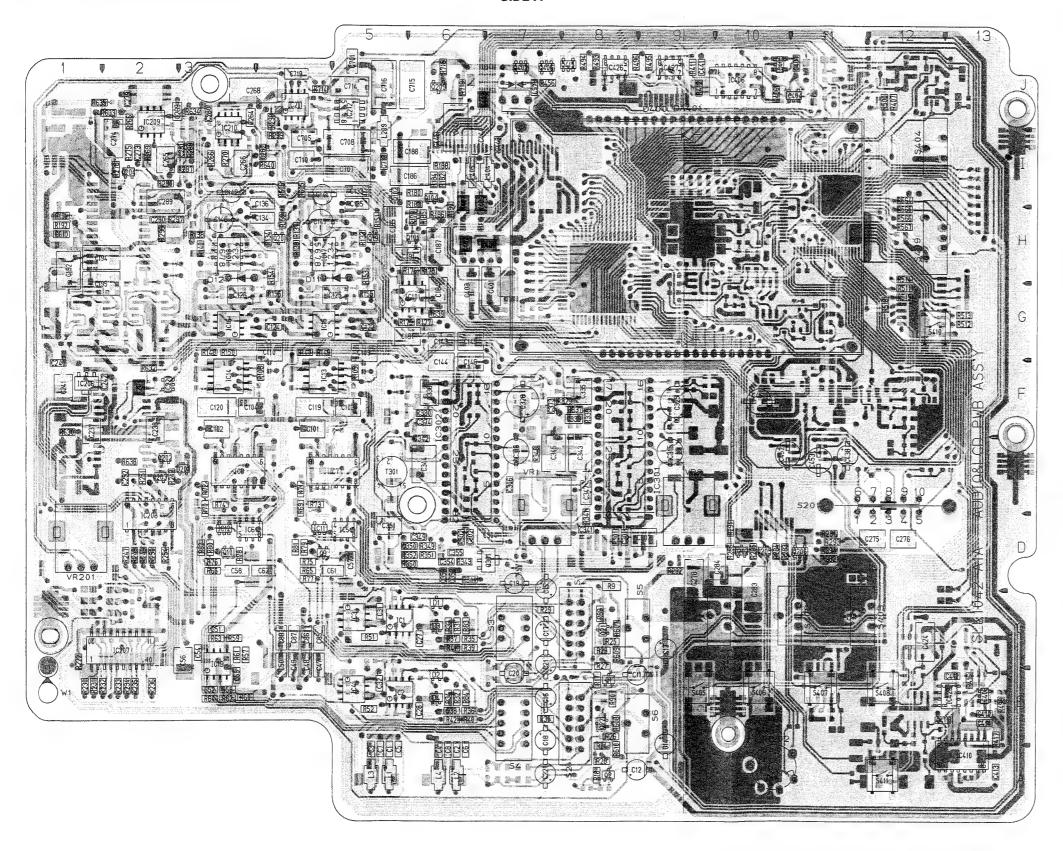


— DIAGRAM 2/4 —



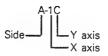




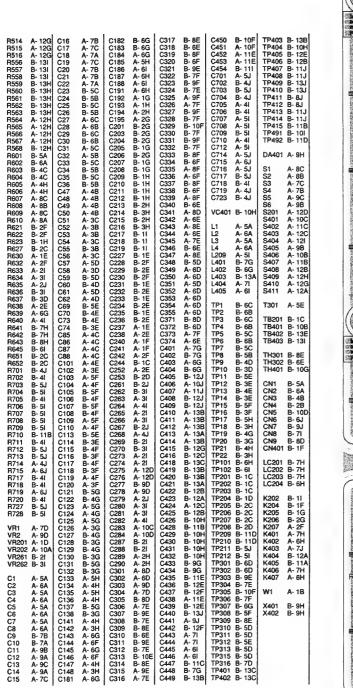


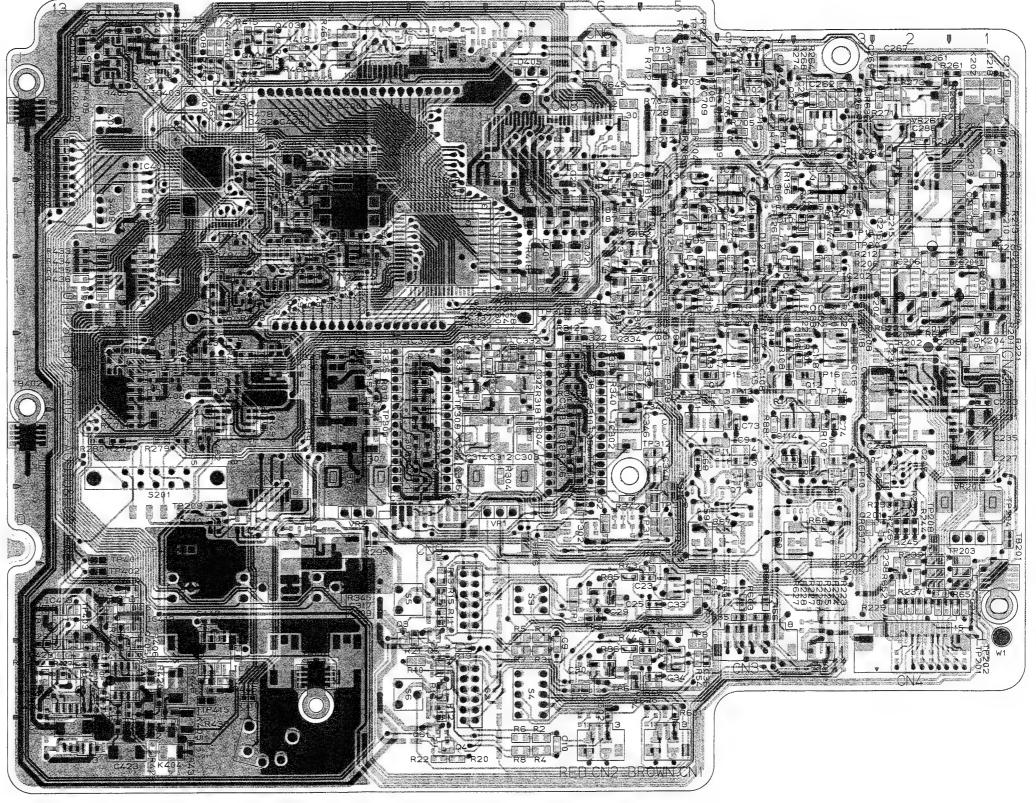
●ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.

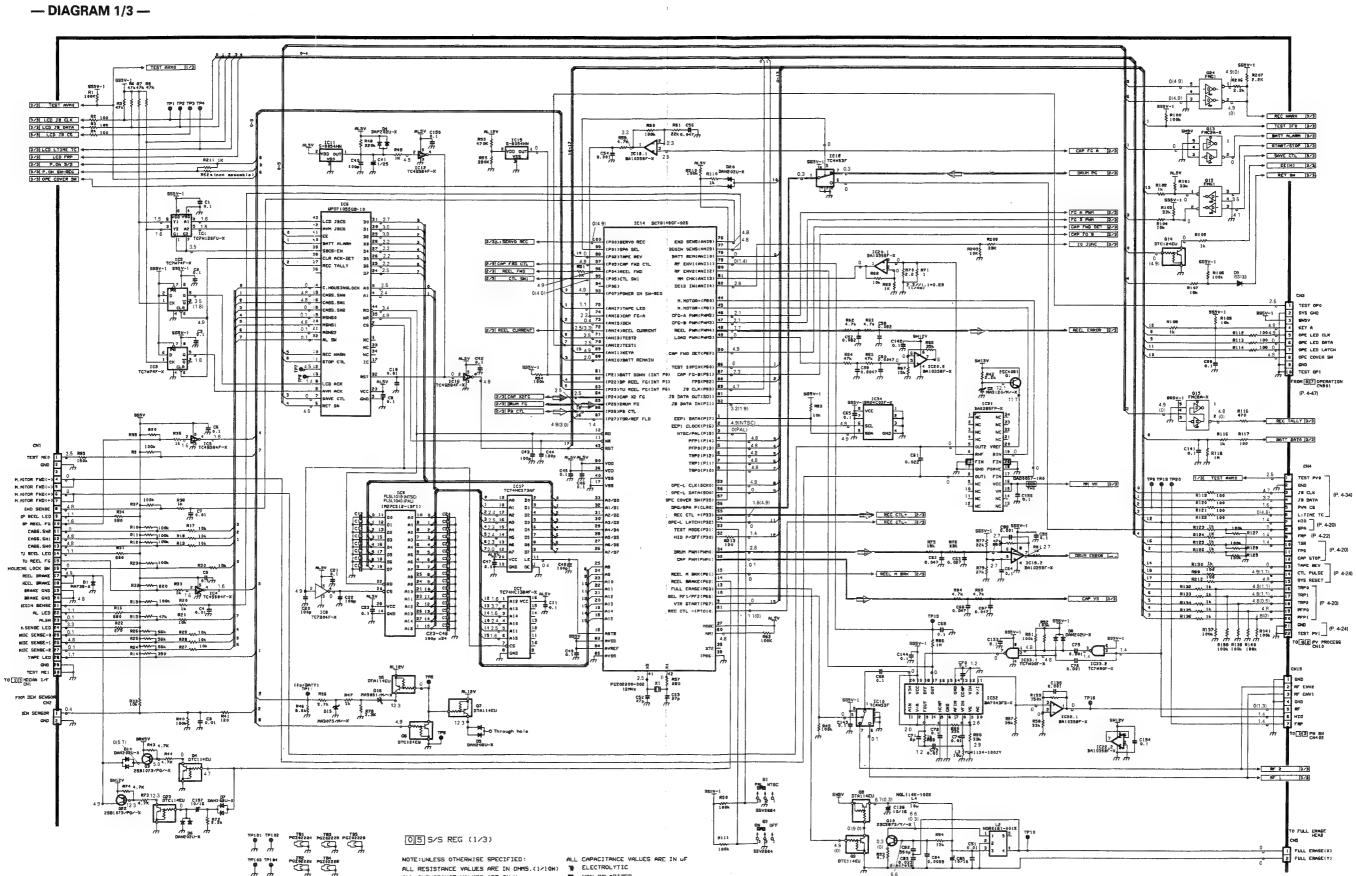


C1 C	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Q204 Q205 Q207 Q209 Q3011 Q402 Q209 Q3011 Q402 Q209 Q3011 Q402 Q401 Q402 Q401 Q402 Q401 Q402 Q402 Q402 Q402 Q402 Q402 Q402 Q402	AAABAABBBBBBAAABBBBBAA AAAABBAAABBBAAABBBBBA BBBBBB	R501522 R534 R556 R578 R598 R598 R598 R598 R598 R598 R598 R59	BAABBBBAAAAAAAAAABBAAAAAAAAAAAAAAAAAAA	R153 R154 R155 R156 R157 R156 R157 R156 R156 R157 R156 R157 R156 R157 R157 R157 R157 R157 R157 R157 R157	######################################	R278 R279 R279 R279 R279 R279 R279 R280 R281 R284 R280 R280 R281 R284 R285 R289 R289 R289 R289 R289 R289 R289 R289	BBBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	R416 R417 R419 R421 R422 R423 R424 R425 R429 R421 R422 R422 R423 R424 R425 R429 R421 R422 R422 R422 R422 R422 R422 R422	A A B B B B B B B B B B B B B B B B B B	



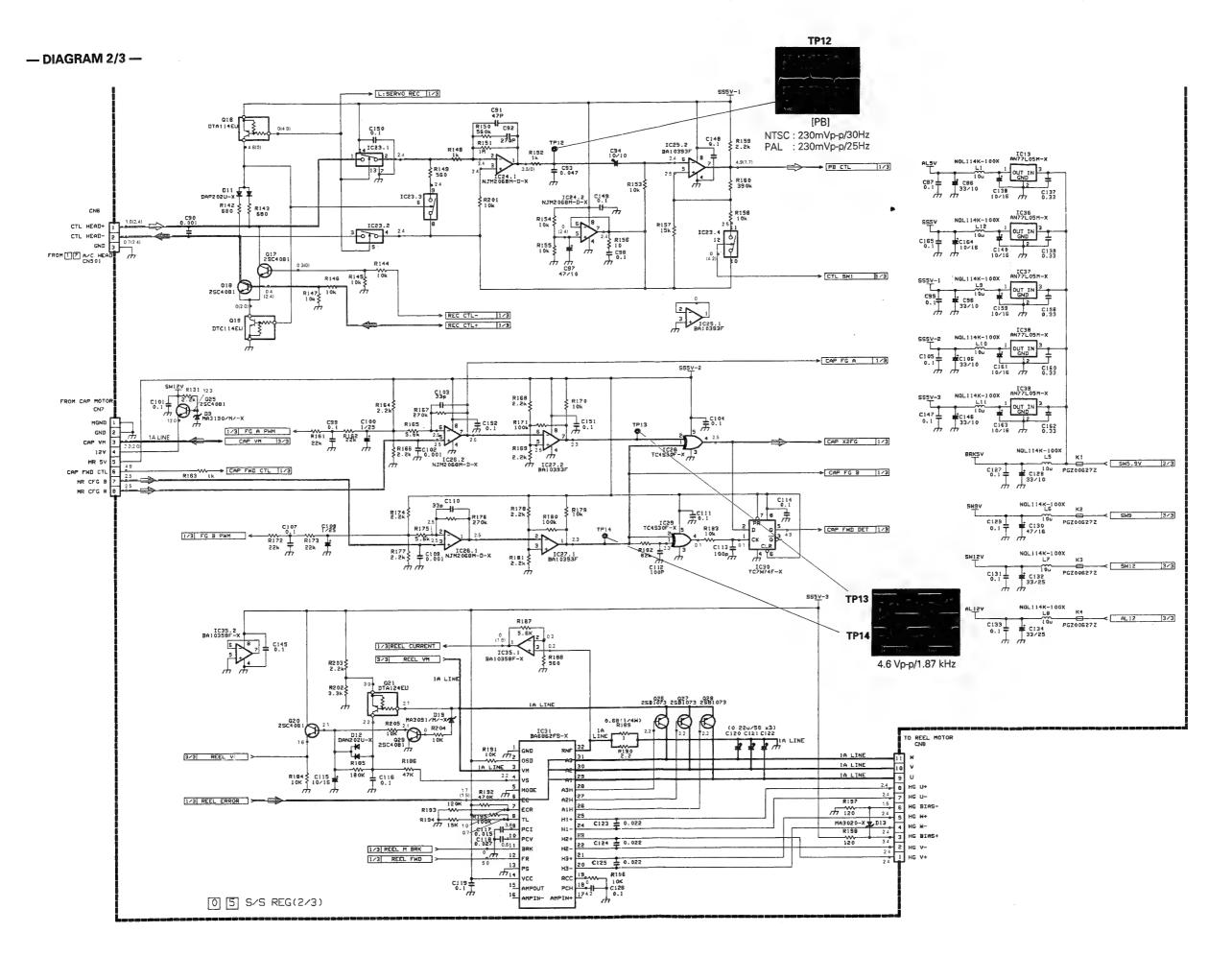


4.23 S/S REG SCHEMATIC DIAGRAM 05

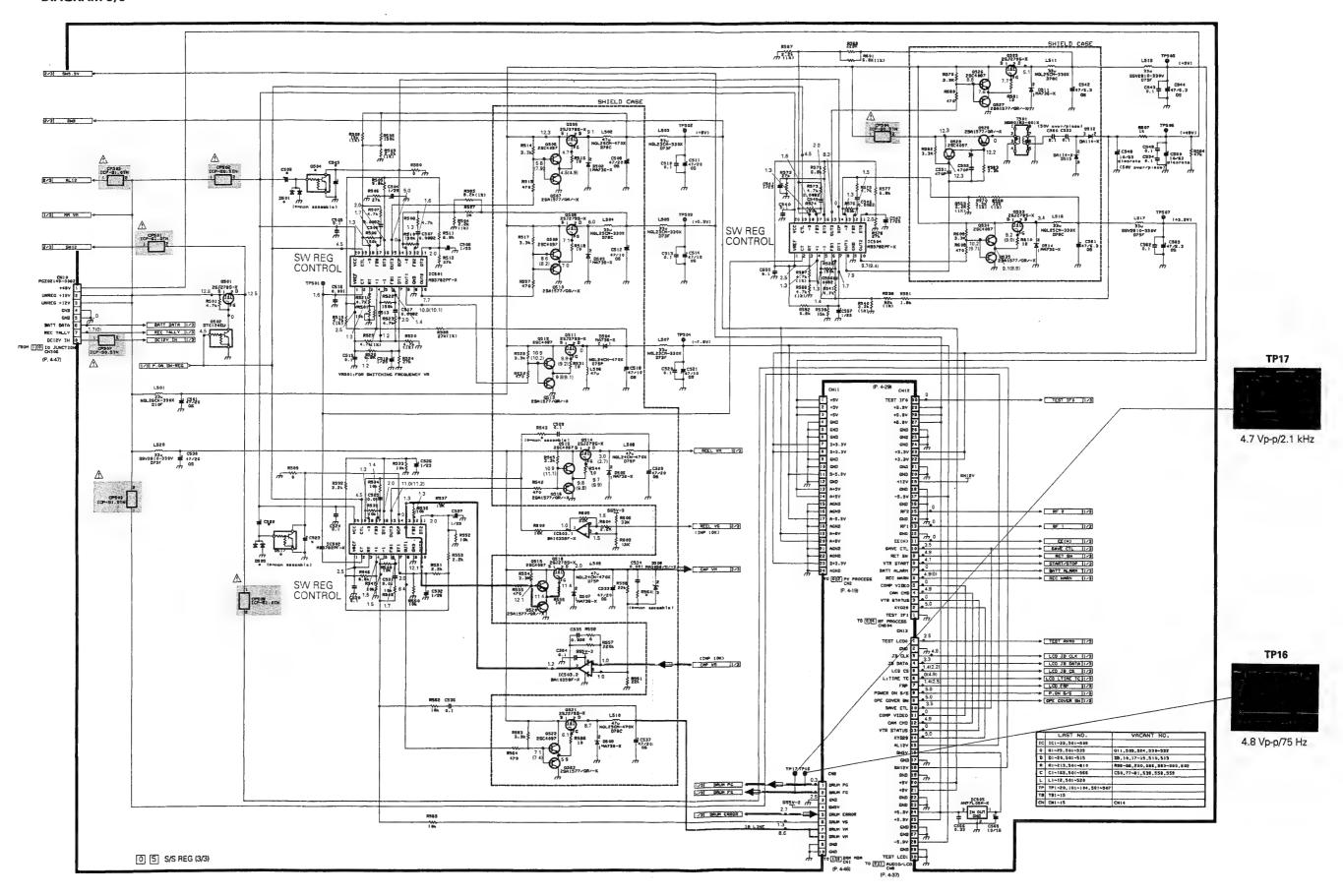


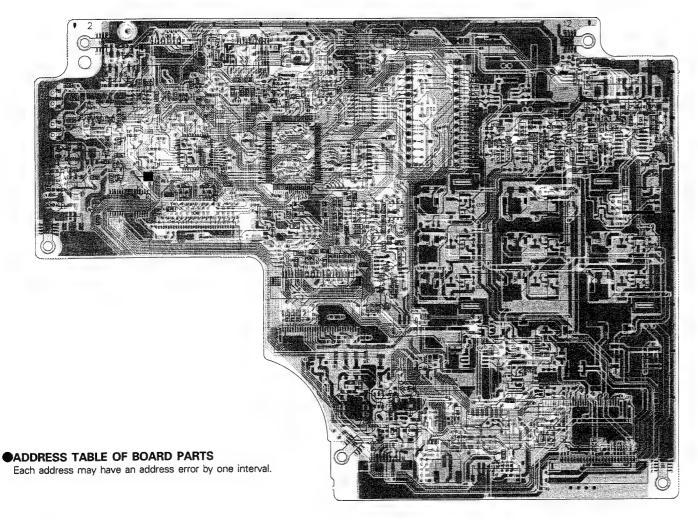
ELECTROLYTIC NON-POLARIZED
CERAMIC

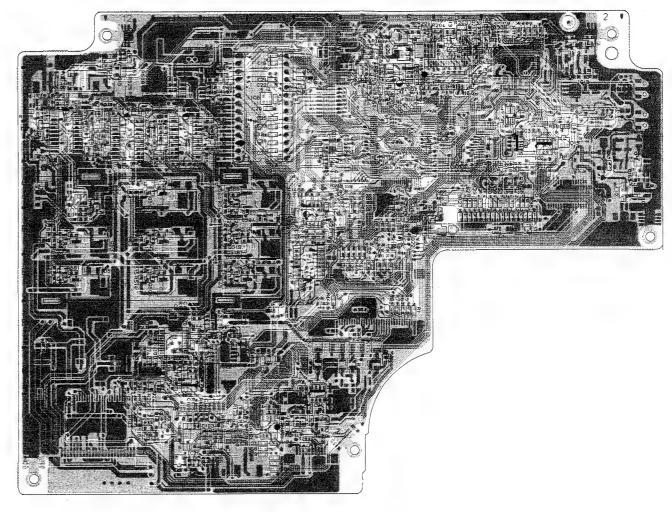
ALL RESISTANCE VALUES ARE IN OHMS. (1/10H)
ALL INDUCTANCE VALUES ARE IN H.

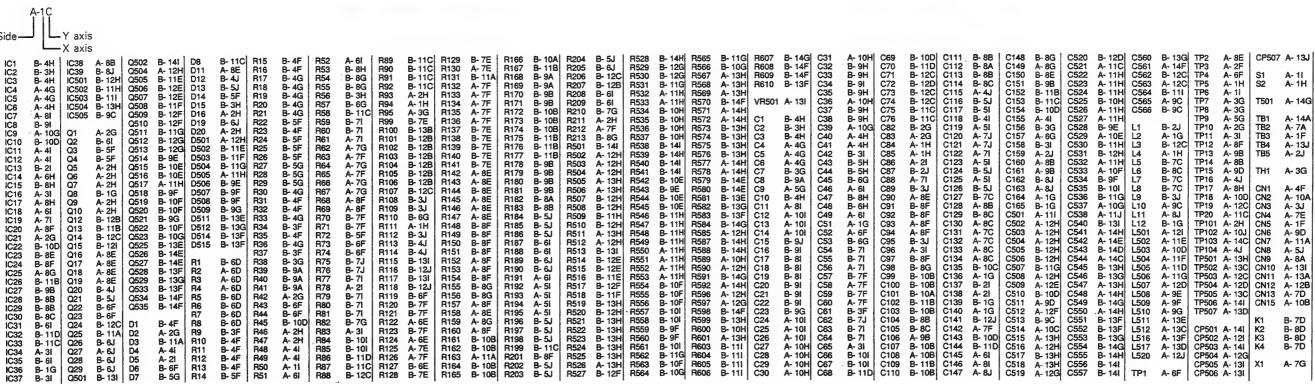


— DIAGRAM 3/3 —

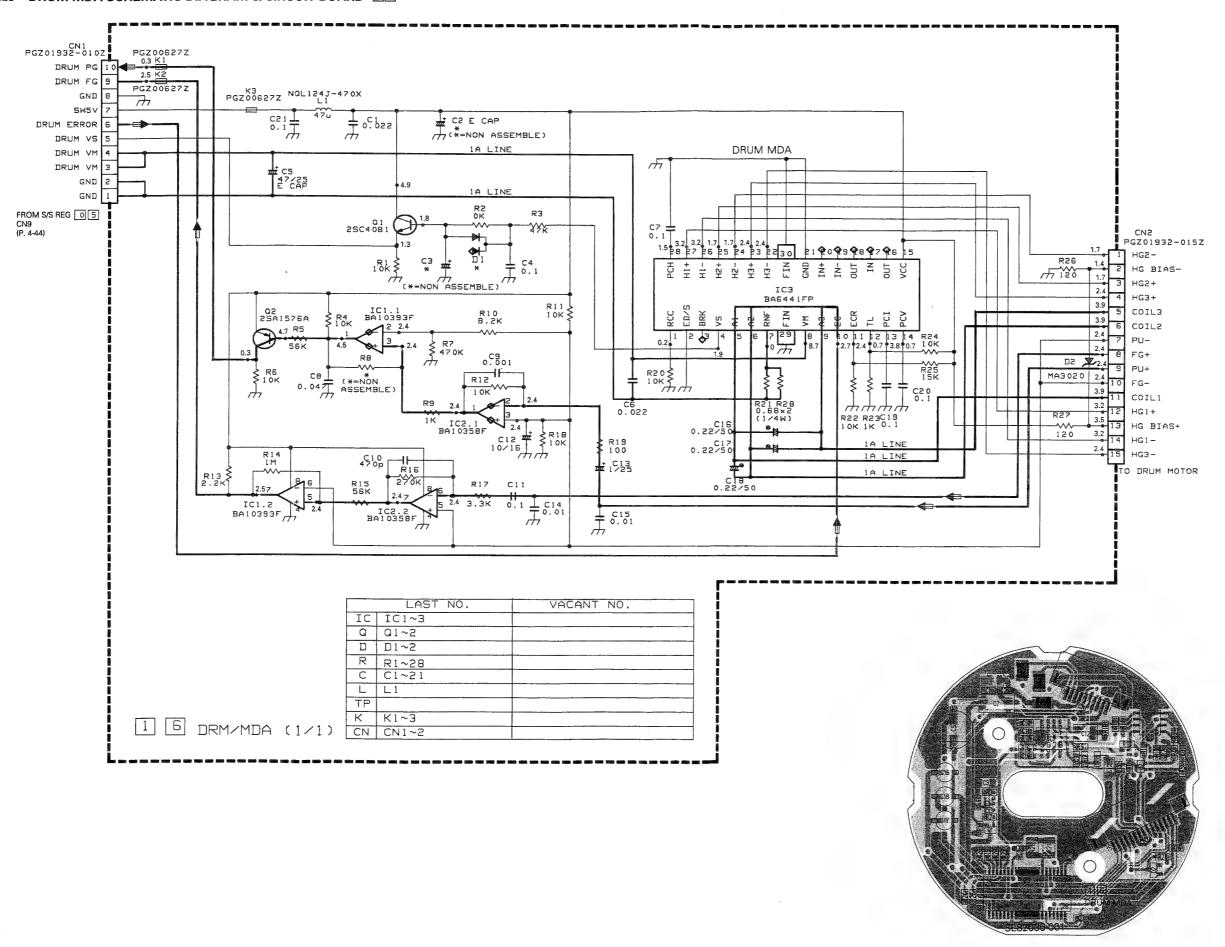




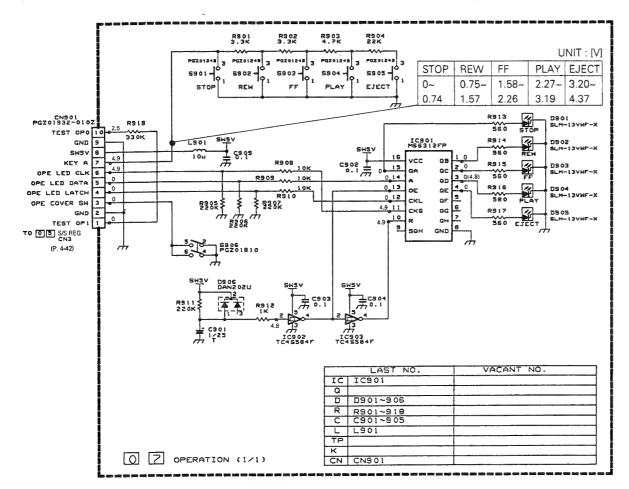




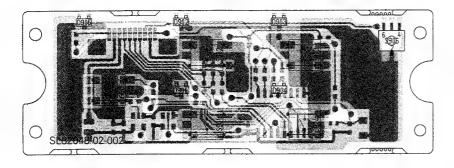
4.25 DRUM MDA SCHEMATIC DIAGRAM & CIRCUIT BOARD 116



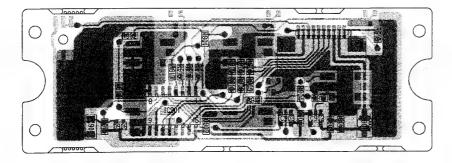
4.26 OPERATION SCHEMATIC DIAGRAM & CIRCUIT BOARD 07



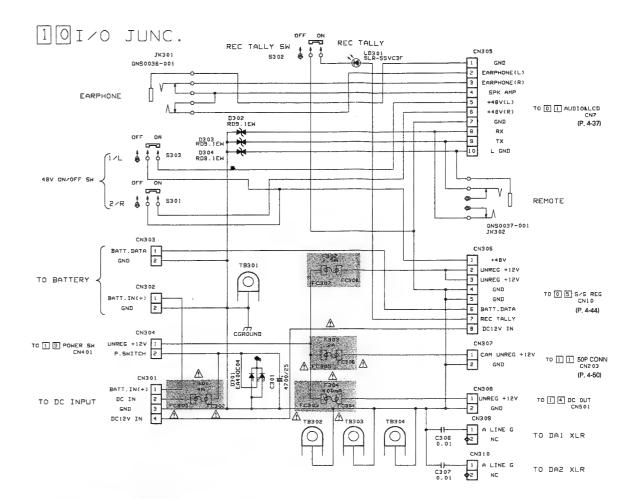
- SIDE A -

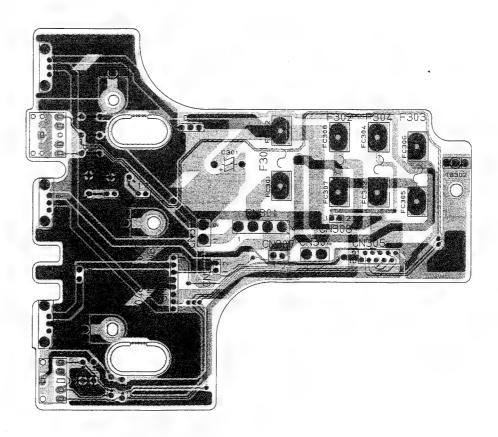


- SIDE B-



4.27 I/O JUNC SCHEMATIC DIAGRAM & CIRCUIT BOARD 10

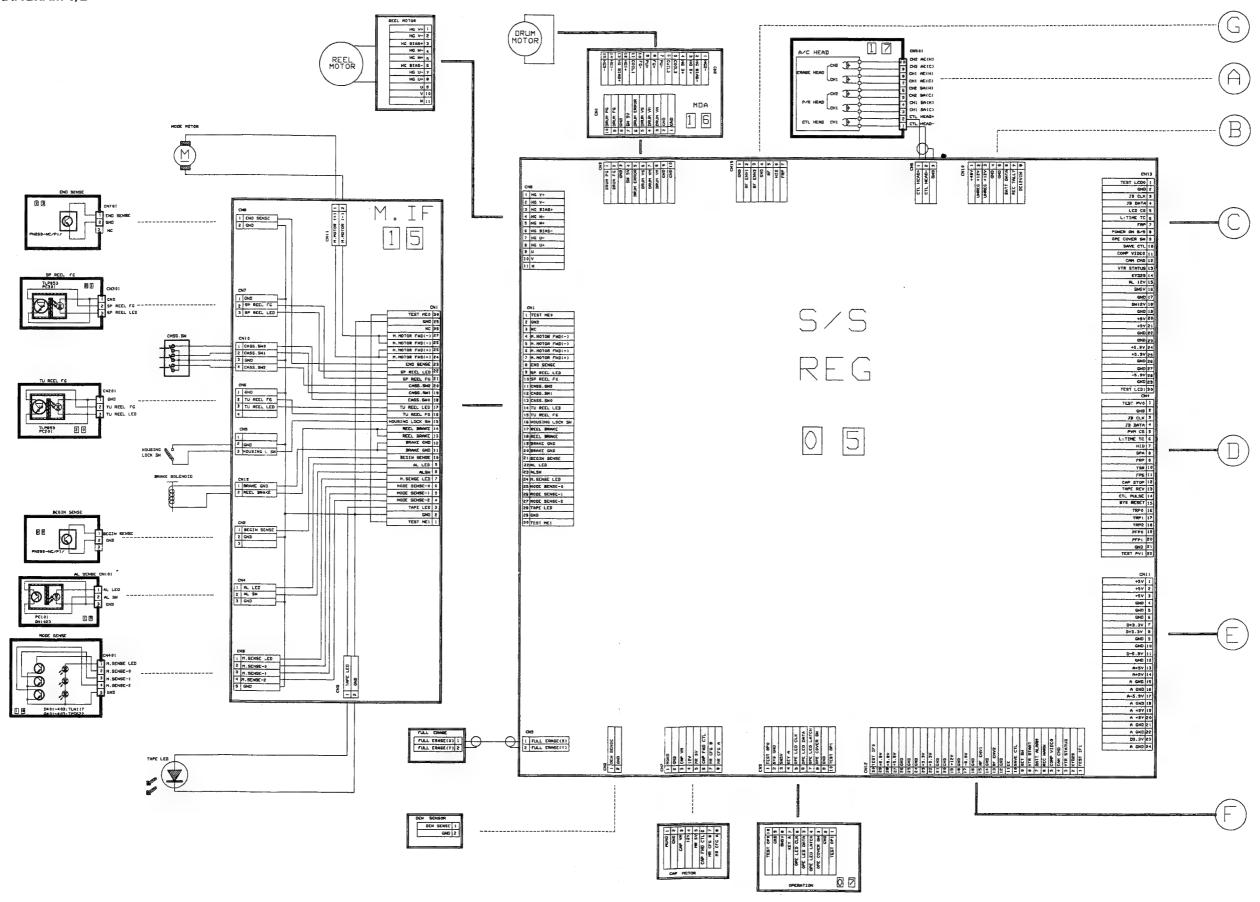


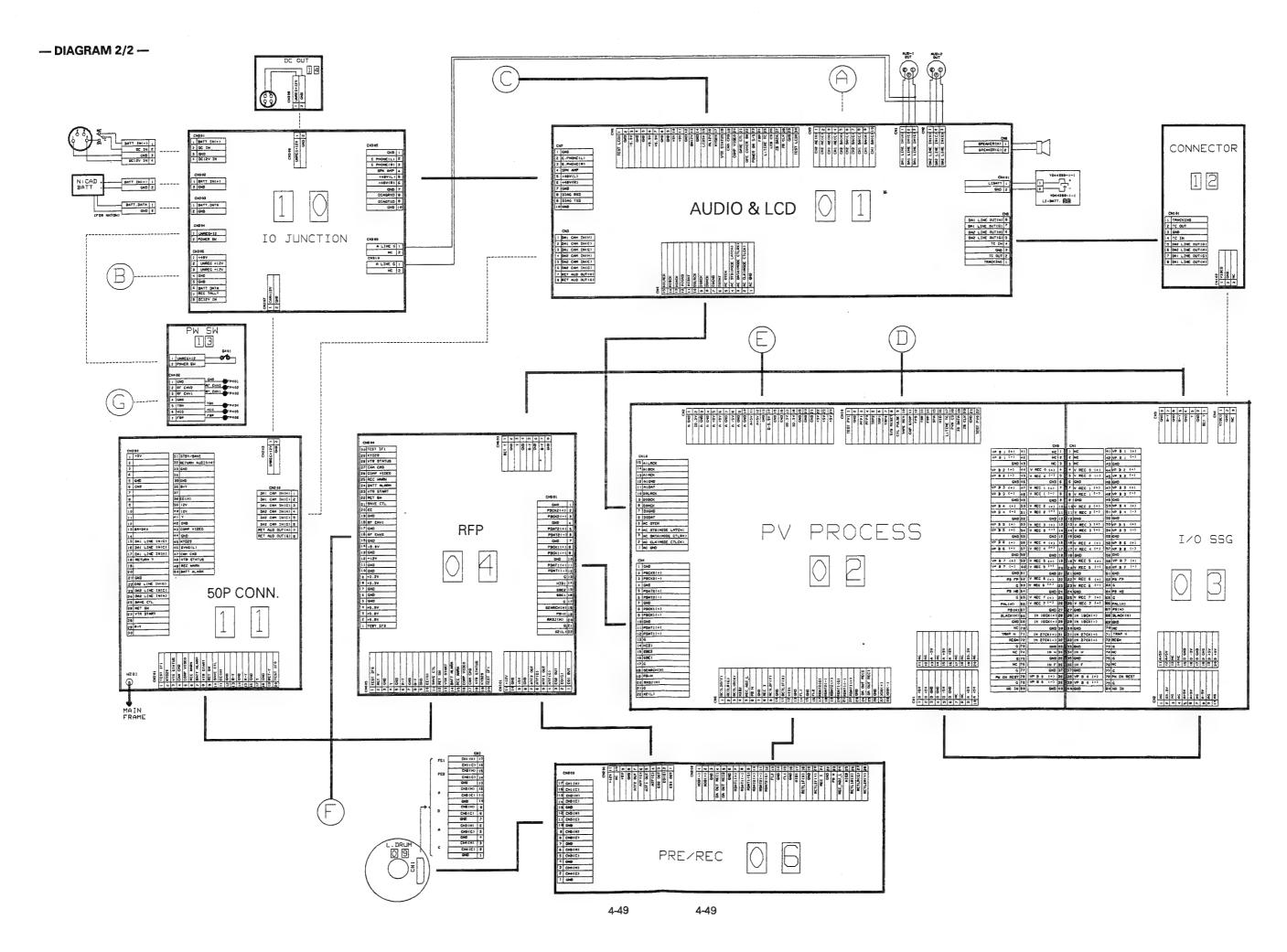


4-47

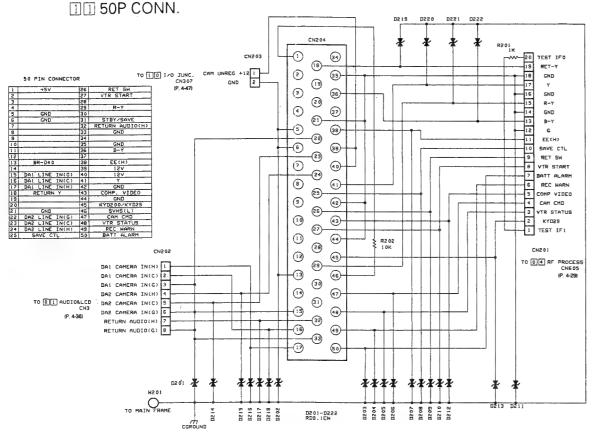
4.28 OVERALL WIRING DIAGRAMS

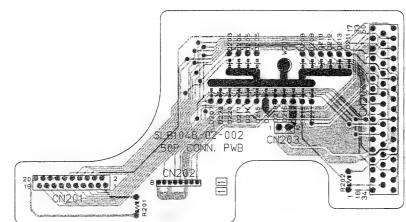
- DIAGRAM 1/2 -



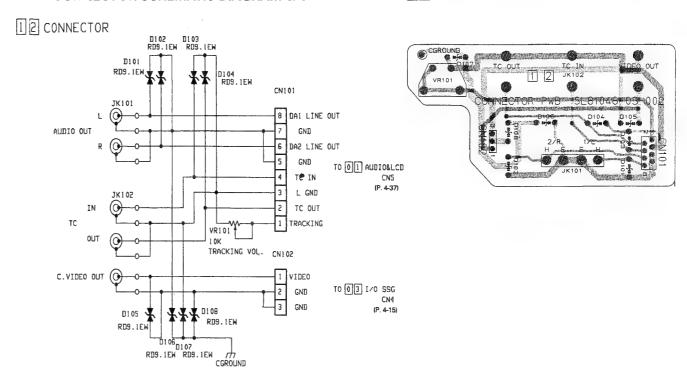


4.29 50P CONN. SCHEMATIC DIAGRAM & CIRCUIT BOARD

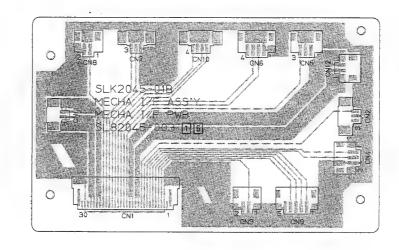




4.31 CONNECTOR SCHEMATIC DIAGRAM & CIRCUIT BOARD 112



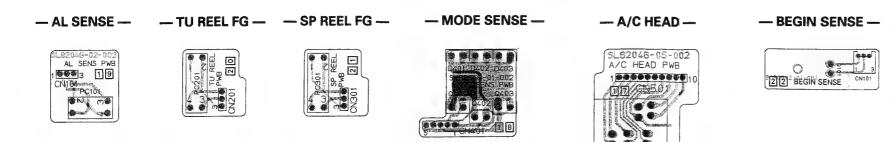
4.32 MECHA. I/F CIRCUIT BOARD

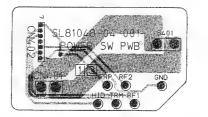


- END SENSE -

23 END SENSE 7 - 02 - 001

4.30 AL SENSE/TU REEL FG/SP REEL FG/MODE SENSE/A/C HEAD/BEGIN SENSE/END SENSE/POWER SW CIRCUIT BOARD





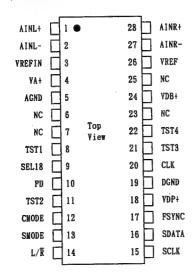
- POWER SW -

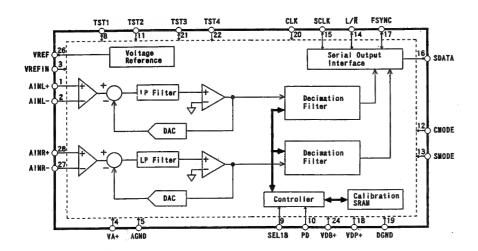
4-50

4-50

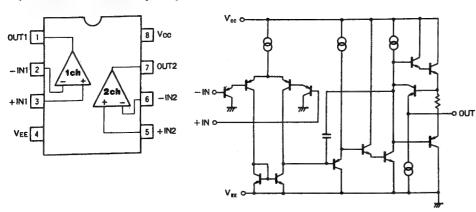
4.33 BLOCK DIAGRAMS of IC'S

AK5340-VS [ASAHIKASEI] (18 bit 2 Channel A/D Converter)

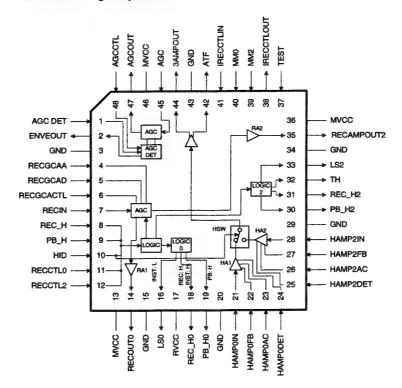




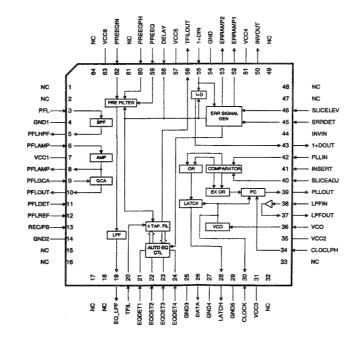
BA10358F-X [ROHM] (Dual Ground Sense Op.Amp.)



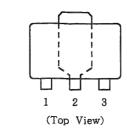
AN3730FA [MATSUSHITA] (Pre-Recoding Amplifire)

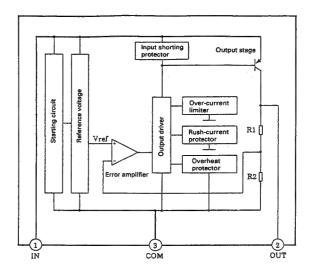


AN3740FAP [MATSUSHITA] (Playback Amplifire)

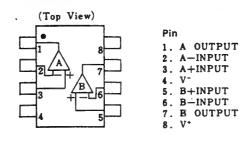


AN77L03M-X [MATSUSHITA] AN77L05M-X [MATSUSHITA] (Voltage Regulator)

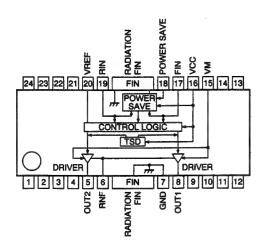




BA10393F-X [ROHM] (Dual Comparator)



■ BA6285FP-X 【ROHM】 (Reversible Motor Driver)

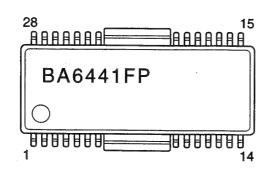


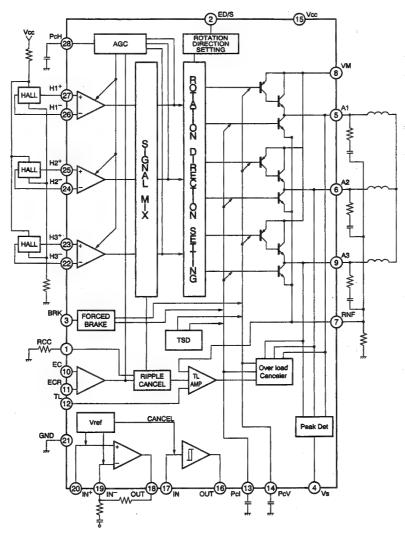
(Top View)

Pin No.	Symbol	Function
1	NC	
2	NC	
3	NC	
4	NC	
5	OUT 2	Motor drive output
6	RNF	GND for motor drive output
7	GND	GND
. 8	OUT 1	Motor drive output
9	NC	
10	NC	
11	NC	
12	NC	
13	NC	
14	NC	
15	VM	Power source for motor drive
16	Voc	
17	FIN	Logic input
18	POWER SAVE	Less than 0.8 V : Movement
		More than 2 V : Stand-by
19	Pin	Logic input
20	VREF	Motor drive output voltage (high level) setting
21	NC	
22	NC	
23	NC	
24	NC ·	
FIN	FIN	Connect the GND

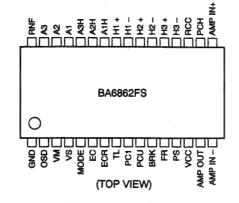
NC : Not connected

■ BA6441FP-X [ROHM] (Motor Driver)

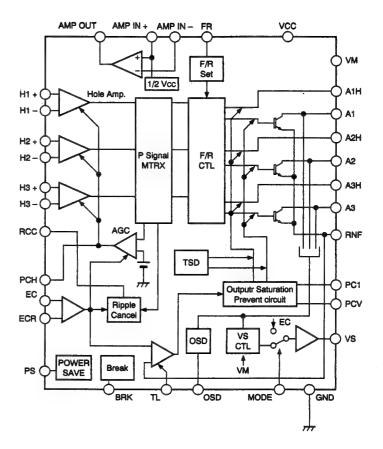




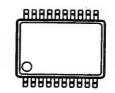
■ BA6862FS-X [ROHM] (Motor Driver)



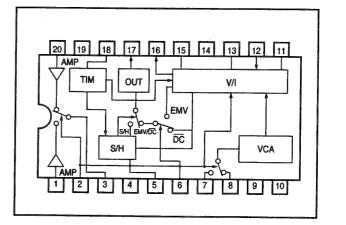
Pin No.	Symbol	Function						
1	GND	GND						
2	OSD	Output detect for short circuit						
3	VM	Power source for motor drive						
4	VS	Control for motor drive						
5	MODE	Current/Voltage switching						
6	EC							
7	ECR	Torque control						
8	TL	Torque reference						
	PCI	Torque limited						
9		Output saturation prevent level (low level)						
10	PCV	Output saturation prevent level (high level)						
11	BRK	Break input H: Break L: Movement						
12	FR	Foward/Reverse CTL input						
13	PS	Power save H: Stand-by L: Movement						
14	VCC							
15	AMP OUT	Amplifire output						
16	AMP IN	Amplifire input ()						
17	AMP IN +	Amplifire input (+)						
18	PCH	Hole amp, AGC phase compareter						
19	RCC	Ripple cancel						
20	H3~	Hole signal input						
21	H3 +	Hole signal input						
22	H2 -	Hole signal input						
23	H2 +	Hole signal input						
24	H1 -	Hole signal input						
25	H1 +	Hole signal input						
26	A1H	Pre motor drive output						
27	A2H	Pre motor drive output						
28	A3H	Pre motor drive output						
29	A1	Motor drive output						
30	A2	Motor drive output						
31	A3	Motor drive output						
32	RNF	GND for motor drive						



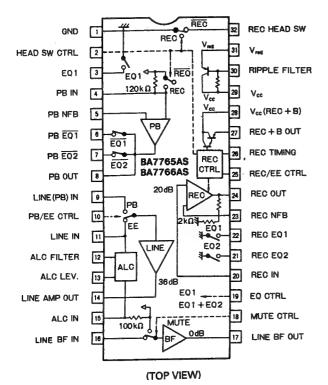
■ BA7043FS-X [ROHM] (VTR Auto Tracking Interface)



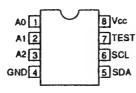
Pin No.	Function	Pin No.	Function
1	AUDIO FM IN	11	V/I RESISTOR
2	VFM/AFM CTL	12	SP/EP GAIN CTL
3	AMP OUT	13	CHARGED CAPACITOR
4	Not Connected	14	GND
5	HOLD CAPACITOR	15	EMV LEVEL ADJ.
6	DC/EMV CTL	16	EMV LEVEL DOWN
7	AUDIO FILTER IN	17	DC/EMV OUT
8	VIDEO FILTER IN	18	D F.F IN
9	VIDEO GAIN ADJ.	19	VCC
10	AUDIO GAIN ADJ.	20	VIDEO FM IN

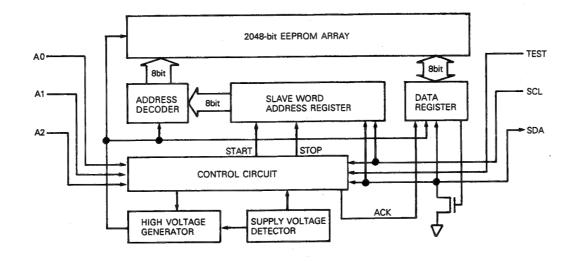


BA7765AS [ROHM] (Normal Audio Signal Processor)

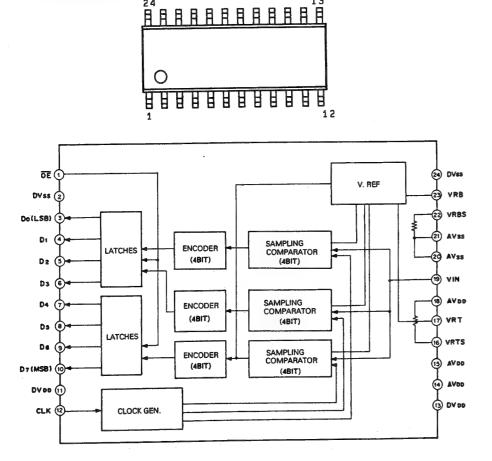


BR24C02F-X [ROHM] (IIC Bus 2k Serial EEPROM)

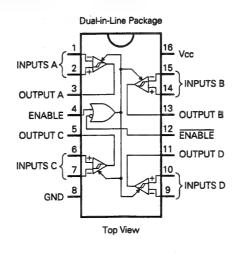




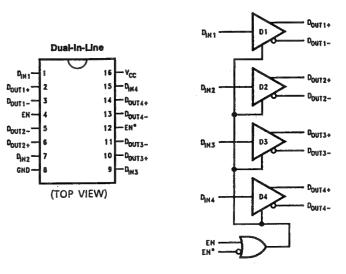
CXD1175AM-X [SONY] (8-Bit 20MSPS Video A/D Converter)



■ DS26C32ATM-X [National Semi Conductor] (Quad Differential Line Receiver)



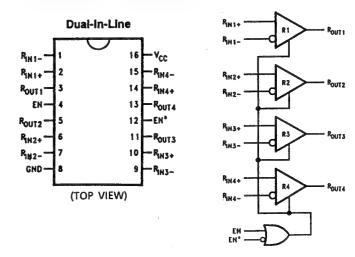
■ DS90C031TM-X [NATIONAL SEMICONDUCTOR] (Low Voltage Differential Signaling Quad CMOS Differential Line Driver)



n	0	11	/E	
u	п			П

Enab	les	Input	Outputs			
EN	EN*	D _{IN}	D _{OUT+}	D _{OUT} _		
L	н	Х	Z	Z		
All other combin	ations	L	L	н		
of ENABLE input	ts	Н	н	L		

■ DS90C032TM-X [NATIONAL SEMICONDUCTOR] (Low Voltage Differential Signaling Quad CMOS Differential Line Receiver)



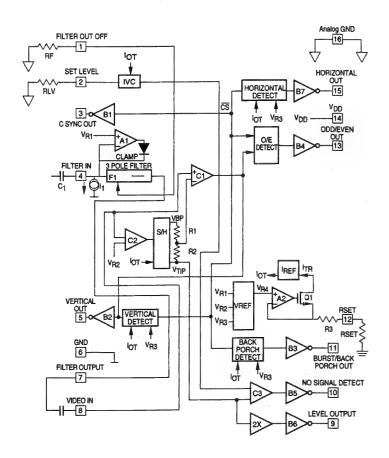
RECEIVER

EN	ABLES	INPUTS	OUTPUT		
EN EN'		R _{IN+} - R _{IN-}	ROUT		
L	н	x	Z		
All other comb		V _{ID} ≥ 0.1V	H		
of ENABLE inc	outs	V _{ID} ≤ -0.1V			
		Full Failsafe OPEN/SHORT or Terminated	н		

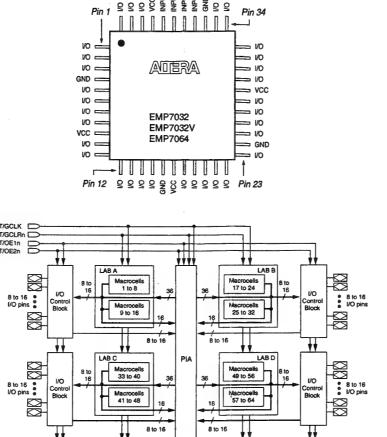
■ EL4583CS-X [ELANTEC] (Video Sync Separator)

16 ANALOG GND FILTER CUT OFF 1 SET DETECT LEVEL 2 15 HORIZONTAL SYNC. OUTPUT 14 VDD COMPOSITE SYNC. OUTPUT 3 FILTER INPUT 4 13 ODD/EVEN OUTPUT 12 RSET VERTICAL SYNC. OUTPUT 5 11 BACK PORCH CLAMP GND 6 10 NO. SIGNAL DETECT. OUTPUT FILTER OUTPUT 7 9 LEVEL OUTPUT VIDEO INPUT 8 Note: R SET must be a 1% resistor.

Top View



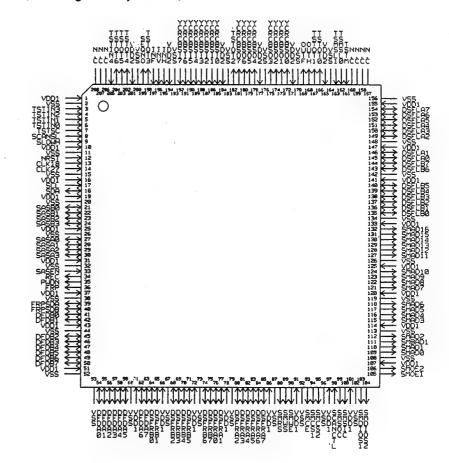
■ EPM032VT-20-001 [ALTERA] (Erasable Programable Logic Devices)

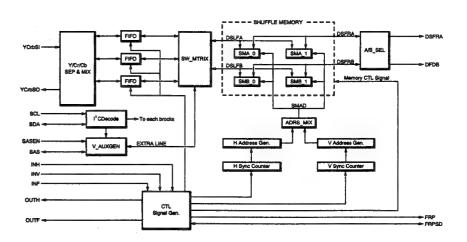


■ EPM064-15-003 [ALTERA] (Refer to EPM032VT-20-001.)

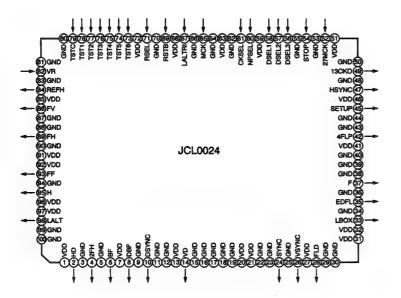
INPUT/GCLK INPUT/GCLRn INPUT/OE1n INPUT/OE2n INPUT/OE2n

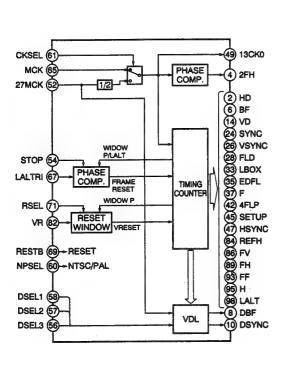
■ JCL0028 [JVC] (Shuffling Memory Control)





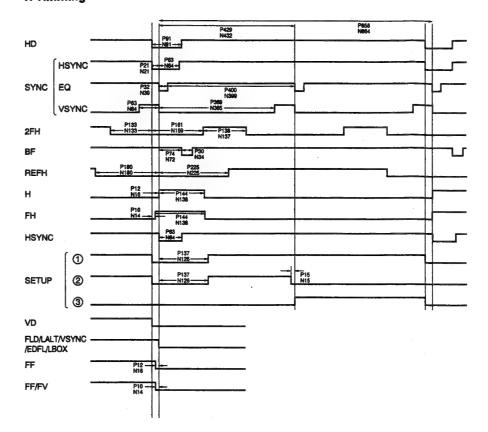
JCL0024 [JVC] (Sync Signal Gennerator)



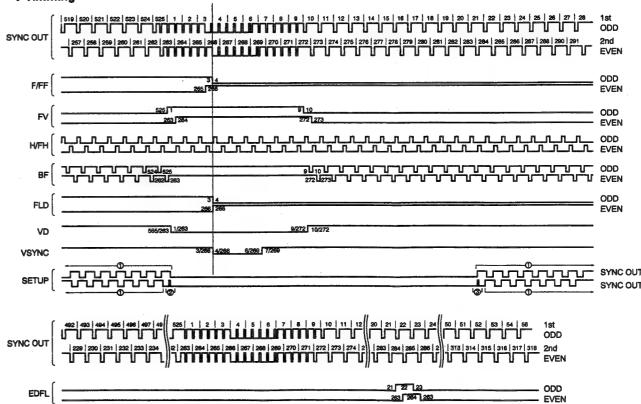


Pin No.	Name	1/0	Function
2	HD	0	Horizontal drive pulse output.
4	2FH	0	Double fH frequency pulse output.
6	BF	0	Burst flag pulse output.
8	DBF	0	Variable delayed burst flag pulse output.
10	DSYNC	0	Variable delayed sync signal output.
14	VD	0	Vertical drive pulse output.
24	SYNC	0	Composite sync output.
26	VSYNC	0	Vertical sync output.
28	FLD	0	Field index pulse output.
	LBOX	0	Letter box output for EDTV2 and PAL plus.
35	EDFL	0	Flag window output for EDTV2 and PAL plus.
37	F	0	Field index pulse output.
42	4FLP	0	Four field sequence pulse output.
45	SETUP	0	Setup pulse output for video signal setup.
47	HSYNC	0	Horizontal sync signal output.
49	13CKO	0	1/2 count-down of 27 MHz (13.5 MHz) pulse output.
52	27MCK		27 MHz clock input.
	STOP		Set the LALTRI input terminal. L : Not used, H : used
56	DSEL3	1	Set the delay timing of DSYNC and DBF signal.
57	DSEL2		
58	DSEL1	1	
60	NPSEL	1	NTSC/PAL select. L : NTSC, H : PAL
61	CKSEL		Set the input clock frequency. L: 13.5 MHz, H: 27 MHz
65	MCK	1	13.5 MHz clock input.
67	LALTRI	1	Line alternated reset input.
69	RSTB		Power on reset. L : reset
71	RSEL	I	Set the V-reset mode, L: MODE 1, H: MODE 2
73	TEST6	1	Test signal input.
74	TEST5	ı	Connect the GND.
75	TEST4	ı	
76	TEST3	1	
77	TEST2	1	
78	TEST1	1	
79	TESTC		
82	VR	0	V-reset pulse input
84	REFH	0	Reference pulse output for HPLL
86	FV .	0	FV pulse output
89	FH		FH puise output
93	FF	0	FF pulse output
95	H	0	H pulse output
98	LALT	0	Line alternated signal output for PAL.

• H Timming

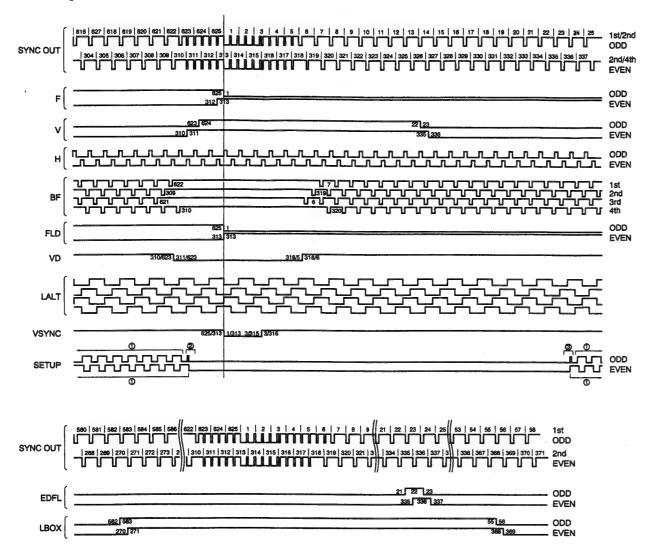


V Timming

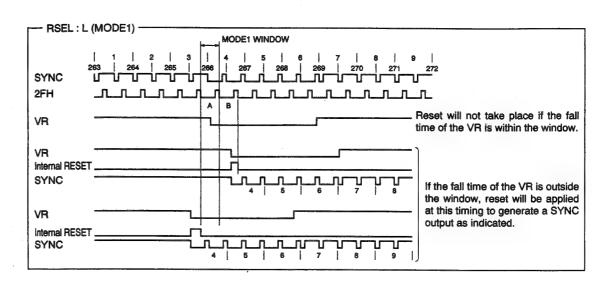


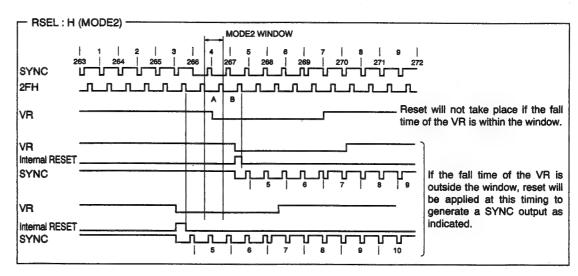
ODD

V Timming (PAL)

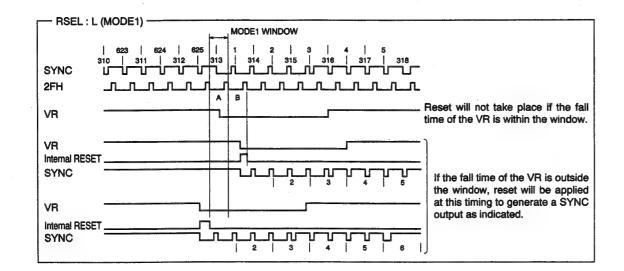


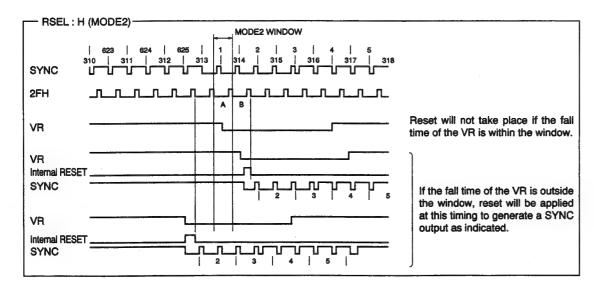
V Reset (NTSC)



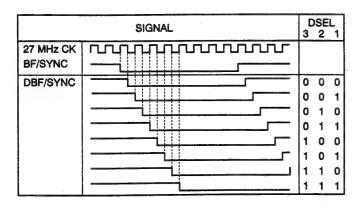


V Reset (PAL)

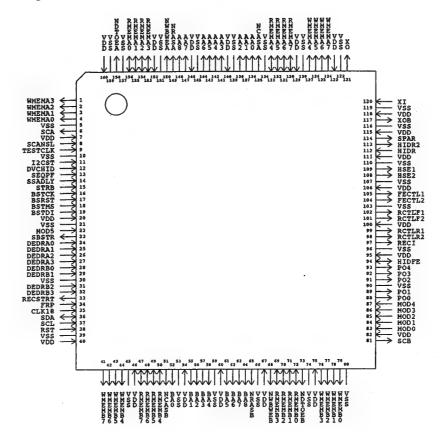




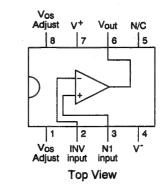
• D SYNC, DBF

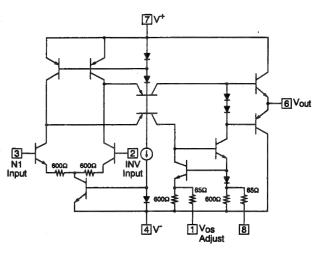


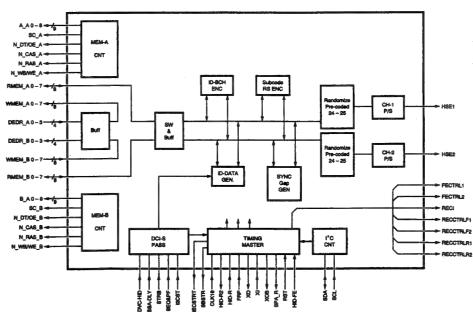
■ JCL0029 [JVC] (Digital Channel Integrated Circuit (DCI) for Recoding)



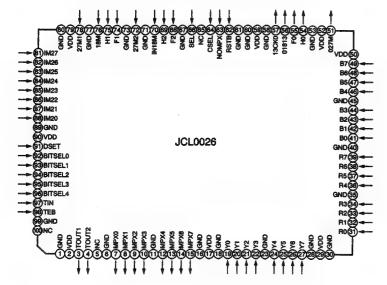
■ LM6361M-X [NATIONAL SEMICONDUCTOR] (High Speed Op. Amplifier)







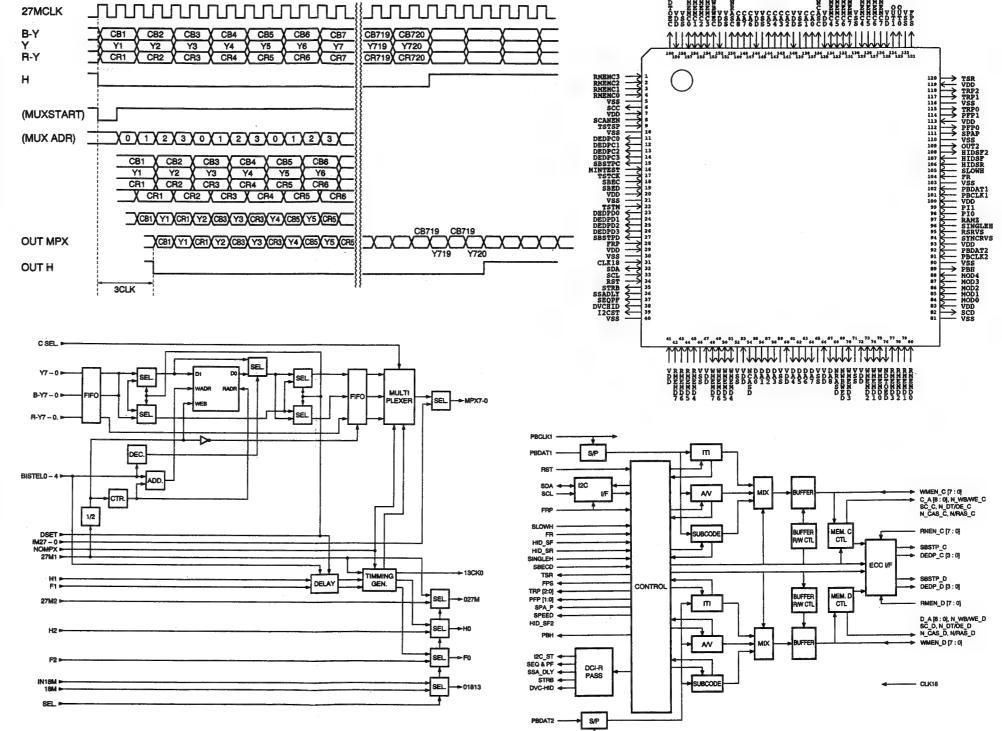
JCL0026 [JVC] (8-bit Multiplexer of Digital Component Signal)



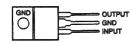
NC: Not Connected

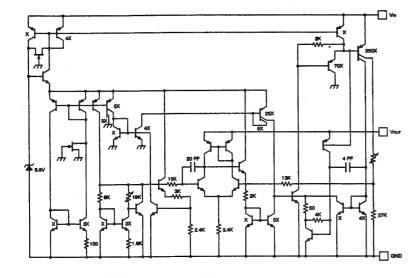
Pin No.	Name	1/0	Function
3, 4	T OUT 1, 2	0	Test terminals of internal RAM. Nomally open.
7-10, 12-15	MPX0-7	0	8 bit multiplexer outputs.
19-22, 24-27	Y0-7	1.	8 bit digital Y signal inputs.
31-34, 36-39	R0-7	1	8 bit digital R-Y signal inputs.
41-44, 46-49	B0-7	1	8 bit digital B-Y signal inputs.
51	027M	0	27 MHz clock output.
54	HO	0	H pulse output.
55	F0	0	Field index pulse output.
56	01813	0	18 MHz clock output.
57	13CKO	0	27/2 MHz (13.5 MHz) clock output.
62	RSTB	1	Reset signal input.
63	NOMPX	1	Multiplexer ON/OFF input. (H : ON, L : OFF)
64	CSEL	1	8-bit digital signals input select. (H : Component, L : Y/C)
66	SEL	1	Clock outputs select. (H: 27M1, H1, F1, IN18M outputs, L: 27M2, H2, F2, 18M outputs)
68	F2	1	Field index pulse input. (from digital I/O)
69	H2	1	H pulse input. (from digital I/O)
70	IN18M	1	18 MHz clock input. (from digital I/O)
72	27M2	1	27 MHz clock input. (from digital I/O)
74	F1	T	Reference Field index pulse input.
75	H1	1	Reference H pulse input.
76	18M	1	Reference 18 MHz clock input.
78	27M1	1	Reference 27 MHz clock input.
81-88	IM27-20		Multiplex data inputs. (from digital I/O)
91	DSET	1	Data set timing pulse input. (H: B-Y, R-Y, L: Y)
92-96	BITSEL0-4		Phase shift data for input signal
97	TIN	1	Test terminal of internal RAM. Nomally open.
98	TEB		Test terminal of internal RAM, Nomally open.

■ JCL0030 [JVC]
(Digital Channel Integrated Circuit (DCI) for Playback)

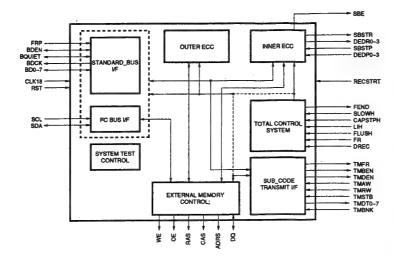


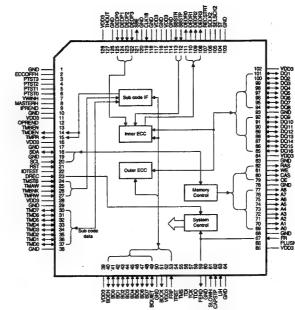
■ LM2940S-5.0-W [NATIONAL SEMICONDUCTOR] (+5V Low Drop-Output Positive Voltage Regulator)



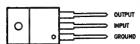


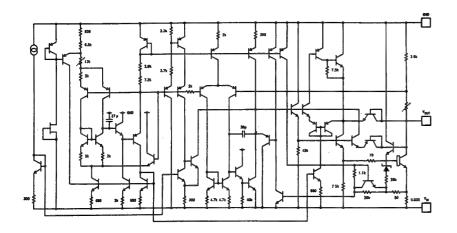
■ L7A1433 [LSI LOGIC] (Error Correcting Codes (ECC))



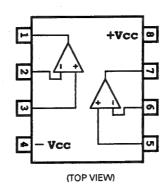


LM2990S-5.0-W	[NATIONAL SEMICONDUCTOR]
	utnut Negative Voltage Regulator)





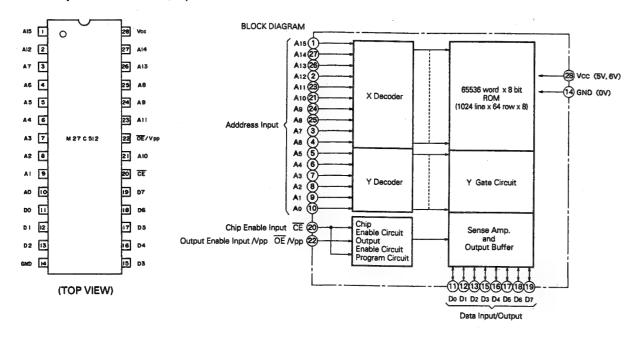
M5216FP-X [MITSUBISHI] (Dual Op Amp.)



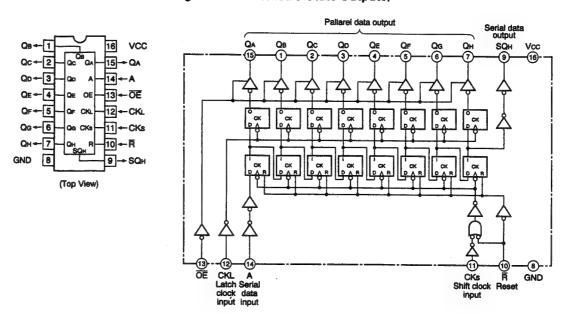
Pin No.	Label	In/Out	Description
1	GND	-	Ground
2	ECCOFFH	-	Not used (Low fixed)
3	PTST3	-	Not used (Low fixed)
4	PTST2	-	Not used (Low fixed)
5	PTST1	-	Not used (Low fixed)
6	PTSTO	1 -	Not used (Low fixed)
7	TWINH	-	Not used (Low fixed)
8	MASTERH	-	Not used (Low fixed)
9	IPREND	-	Not used (Low fixed)
10	GND	-	Ground
11	VD03	-	Power supply (+3V)
12	OPREND	1 -	Not used
13	TMBEN	-	Not used
14	TMDEN	Out	Communication enable of sub code bus
15	TMFR	Out	Frame detect (1st track: H)
16	VDD3	-	Power supply (+3V)
17	GND	-	Ground
18	SDA	in/Out	Data for IIC
19	GND	nrou.	Ground
20	SCL	in	Clock for IIC
21	RST	ln ln	System reset
22	IOTEST	- "	Not used (High fixed)
	DREC	+	Signal REC: H
23		in	
24	TMSTB	in	Deta strobe of sub code bus Address strobe of sub code bus
25	TMAW	In	
26	TMBNK	in	Bank select
27	TMRW	In	Read/Write of sub code bus (Write: H)
28	VDD3	-	Power supply (+3V)
29	GND	-	Ground
30	TMDT7	In/Out	
31	TMDT6	In/Out	
32	TMDT5	In/Out	
33	TMDT4	In/Out	Adderss and data of sub code bus
34	тмртз	In/Out	
35	TMOT2	In/Out]
36	TMDT1	In/Out	1
37	TMDT0	In/Out	
38	GND	-	Ground
39	VDD3	-	Power supply (+3V)
40	BOEN	In/Out	DV bus data enable
41	BD0	in/Out	
42	BD1	In/Out	DV bus data (9 MHz/8 bit)
43	802	In/Out]
44	BD3	In/Out	1

50	GND	-	Ground
51	BDCK	Out	DV bus data clock (9 MHz)
52	VDD3	-	Power supply (+3V)
53	FRP	In	
33	PRP	HI	Frame pulse
54	TRST	-	-
55	TMS		
56	TDI	-	
57	TCK		
5/		-	
58	TDO	-	-
59		Out	Parameter designation and address
59	FEND	Uu	Frame end pulse for slow and still
60	GND	-	Ground
61	SLOWH	la.	Claus made See (Claus mades (4))
01		in	Slow mode flag (Slow mode: H)
62	CAPSTP	In	Capstan stop flag (Capstan stop mode: H)
63	LIH	In	Interval slow or linear slow flag (Linear slow mode: H)
64	GND	-	Ground
65	VDD3		Power supply (+3V)
66	FLUSH	-	Data transition pulse for field advance (Not used)
67	FR	ln	Capstan foward/reverse (REV: H)
	Chip		Ground
68	GND	-	
69	A0	Out	(A0: LSB)
70	A1	Out	
71	A2	Out	
72	A3	Out	
			L
73	A4	Out	Memory address (9 MHz)
74	A5	Out	1
			l I
75	A6	Out	
76	A7	Out	1
			(As: NOD)
- 77	A8	Out	(A8: MSB)
78	GND	-	Ground
79	OE	Out	Memory output enable (active: L)
80	CAS	Out	Memory column address strobe
81	WE	Out	Memory write enable (active: L)
82	RAS	Out	Memory row address strobe
83	GND	-	Ground
84	VDD3	_	
			Power supply (+3V)
85	DQ16	In/Out	(DQ16: MSB)
86	DQ15	In/Out	Memory data (16 bit)
	DQ14	In/Out	
B7		Invour	
88	DQ13	In/Out	
	2010	In/Out	
89	DQ12		
89			
90	DQ11	In/Out	Memory data (16 bit)
			Memory data (16 bit)
90 91	DQ11 DQ10	In/Out	Memory data (16 bit)
90 91 92	DQ11 DQ10 DQ9	In/Out In/Out	
90 91	DQ11 DQ10	In/Out	Memory data (16 bit) Ground
90 91 92 93	DQ11 DQ10 DQ9 GND	In/Out In/Out In/Out	
90 91 92 93 94	DQ11 DQ10 DQ9 GND DQ8	In/Out In/Out In/Out	
90 91 92 93 94 95	DQ11 DQ10 DQ9 GND DQ8 DQ7	In/Out In/Out In/Out - In/Out In/Out	Ground
90 91 92 93 94	DQ11 DQ10 DQ9 GND DQ8	In/Out In/Out In/Out	Ground
90 91 92 93 94 95	DQ11 DQ16 DQ9 GND DQ8 DQ7 DQ6	In/Out In/Out In/Out In/Out In/Out In/Out	
90 91 92 93 94 95 96 97	DQ11 DQ10 DQ9 GND DQ8 DQ7 DQ6 DQ5	In/Out In/Out In/Out In/Out In/Out In/Out In/Out In/Out In/Out	Ground
90 91 92 93 94 95	DQ11 DQ16 DQ9 GND DQ8 DQ7 DQ6	In/Out In/Out In/Out In/Out In/Out In/Out	Ground
90 91 92 93 94 95 96 97	DQ11 DQ10 DQ9 GND DQ8 DQ7 DQ6 DQ5	In/Out In/Out In/Out In/Out In/Out In/Out In/Out In/Out In/Out	Ground
90 91 92 93 94 95 96 97 98	D011 D010 D09 GND D08 D07 D06 D05 D05 D05	In/Out	Ground
90 91 92 93 94 95 96 97	D011 D010 D09 GND D08 D07 D06 D06 D06 D06 D06 D005 D004 D003	In/Out	Ground
90 91 92 93 94 95 96 97 98	D011 D010 D09 GND D08 D07 D06 D06 D06 D06 D06 D005 D004 D003	In/Out	Ground
90 91 92 93 94 95 96 97 98 99 100	D011 D010 D09 GND D08 D07 D06 D05 D04 D05 D04 D05 D04 D05 D04 D04 D002 D01	In/Out	Ground Memory data (16 bit) (OQ1: LSB)
90 91 92 93 94 95 96 97 98 99 100 101	D011 D010 D09 GND D08 D07 D06 D06 D07 D06 D06 D04 D04 D03 D02 D01 VD03	In/Out	Ground Memory data (16 bit) (OQ1: LS8) Power supply (+3V)
90 91 92 93 94 95 96 97 98 99 100	D011 D010 D09 GND D08 D07 D06 D05 D04 D05 D04 D05 D04 D05 D04 D04 D002 D01	In/Out	Ground Memory data (16 bit) (OQ1: LSB)
90 91 92 93 94 95 96 97 98 99 100 101	D011 D010 D09 GND D08 D07 D06 D06 D07 D06 D06 D04 D04 D03 D02 D01 VD03	In/Out	Ground Memory data (18 bit) (DO1: LSB) Power supply (-3V) Ground
90 91 92 93 94 95 96 97 98 99 100 101 102 103	D011 D010 D09 GND D08 D07 D06 D05 D04 D03 D02 D01 D03 D02 D01 D03 D02 D01 ST	InvOut In	Ground Memory data (18 bit) (DQ1: LSB) Power supply (+3V) Ground Not used (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	D011 D010 D09 GND D08 D07 D06 D06 D05 D06 D05 D04 D03 D02 D01 VD03 GND ST SELSCK2	In/Out	Ground Memory data (16 bit) (OQ1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103	D011 D010 D09 GND D08 D07 D06 D05 D04 D03 D02 D01 D03 D02 D01 D03 D02 D01 ST	InvOut In	Ground Memory data (18 bit) (DQ1: LSB) Power supply (+3V) Ground Not used (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	D011 D010 D09 GND D08 D07 D06 D06 D05 D06 D05 D04 D03 D02 D01 VD03 GND ST SELSCK2	InvOut In	Ground Memory data (18 bit) (DO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	D011 D010 D010 D09 GND D08 D07 D06 D07 D06 D05 D04 D03 D04 D03 GND ST SELSCN2 SELSCN2 RECSTRT	InvOut In	Ground Memory data (18 bit) (DO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	DO11 DO10 DO9 GND DO6 DO7 DO6 DO5 DO5 DO5 DO5 SDO5 SDO5 SST SELSCK2 SCLV2 RECSTRC SDDR	InvOut In	Ground Marnory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Rot (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	D011 D010 D010 D09 GND D08 D07 D06 D07 D06 D05 D04 D03 D04 D03 GND ST SELSCN2 SELSCN2 RECSTRT	InvOut In	Ground Marnory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Rot (Low fixed)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	D011 D010 D010 D09 GHD D06 D07 D06 D05 D04 D03 D02 D01 ST ST SELSON2 SELSON2 SELSON2 SELSON2 SELSON2 D05 D05 D05 D07 D06 D07 D06 D07 D06 D07 D06 D07 D06 D07	InvOut In	Ground Memory data (18 bit) (DO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	DO11 DO10 DO9 GND DO9 GND DO5 DO5 DO5 DO5 DO5 DO5 DO5 SO2 DO1 VV003 GND ST SELSOK2 SCLV2 RECSTRT DEDR3 DEDR3 DEDR3 DEDR3 DEDR4	InvOut In	Ground Memory data (18 bit) (DO1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC data to DOI (9 MHz/4 bit)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	D011 D010 D010 D09 GHD D06 D07 D06 D05 D04 D03 D02 D01 ST ST SELSON2 SELSON2 SELSON2 SELSON2 SELSON2 D05 D05 D05 D07 D06 D07 D06 D07 D06 D07 D06 D07 D06 D07	InvOut In	Ground Marnory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Rot (Low fixed)
90 91 92 93 94 95 96 99 100 101 102 103 104 106 107 108 108 110	DO11 DO10 DO6 GND DO6 DO7 DO6 DO5 DO5 DO5 DO5 SDO5 SDO5 SST SELSCK2 SCLV2 SCLV2 SCLV2 SCLV2 SCLV2 DEDR1 DEDR1 DEDR1 DEDR1 DEDR1 DEDR1 DEDR1 DEDR1	InvOut In	Ground (CO1: LSB) Power supply (+5V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (DEDRS: MSB) REC date to DCI (9 MHz/4 bit)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	D011 D010 D09 GND D09 GND D05 D07 D06 D05 D05 D04 D03 D02 D01 D03 GND ST SELSCN2 SCLV2 RECSTRT DEDR3 DEDR3 DEDR1 DEDR1 S8STP	In/Out	Ground Memory data (18 bit) (DG1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (DCB73: MSB) REC date to DC (9 MHz/4 bit) (DEDR0: LSB) Sprc. block start pulse (PB)
90 91 92 93 94 95 96 99 100 101 102 103 104 105 106 107 109 110 110 110 110 110 110 110	DO11 DO10 DO9 GND DO9 GND DO7 DO5 DO5 DO5 DO5 DO5 DO5 SO0	In/Out	Ground Memory data (18 bit) (DGT: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC data start pulse (DEDR: MSB) REC data to DCI (9 MHz/4 bit) (DEDR: LSB) Sync. block start pulse (PB) Sync. block start pulse (PE)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	D011 D010 D09 GND D09 GND D05 D07 D06 D05 D05 D04 D03 D02 D01 D03 GND ST SELSCN2 SCLV2 RECSTRT DEDR3 DEDR3 DEDR1 DEDR1 S8STP	In/Out	Ground Memory data (18 bit) (DG1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (DCB73: MSB) REC date to DC (9 MHz/4 bit) (DEDR0: LSB) Sprc. block start pulse (PB)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 111 111	DO11 DO10 DO6 GND DO6 DO7 DO6 DO5 DO5 DO5 DO5 SO2 DO1 VVDO3 GND ST SELSCN2 SCLV2 RECSTRT DEDRA D	In/Out	Ground (CO1: LSB) Power supply (+3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (CDERS: MSB) REC date to DCI (9 MHz/4 bit) (DEDRO: LSB) Sync. block start pulse (PB) Sync. block start pulse (REC) Ground
90 91 92 93 94 95 96 97 99 100 101 102 103 104 106 106 109 110 110 111 111 112 113 114 115	D011 D010 D09 GND D09 GND D05 D07 D06 D05 D05 D04 D03 D02 D01 D03 GND ST SELSCN2 SCLV2 RECSTRT DEDR3 DEDR3 DEDR3 SBSTP SBSTP SBSTP SBSTP SBSTP SBSTP SBSTP	In/Out	Ground Memory data (18 bit) (DG1: LSB) Power supply (-3V) Ground Not used (Low fixed) REC track start pulse (DCDRS: MSB) REC data to DCI (9 MHz/4 bit) (DEDRo: LSB) Spic. block start pulse (PE)
90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 111 111	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO6 DO5 DO5 DO5 DO5 SD0	In/Out	Ground (DO1: LSB) (DO1: LSB) Power supply (-SV) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC dist start pulse (DEDR0: LSB) Sync. block start pulse (PE) Sync. block start pulse (PEC) Ground
90 91 92 93 94 95 96 97 99 100 101 102 103 104 106 106 109 110 110 111 111 112 113 114 115	D011 D010 D09 GND D09 GND D05 D07 D06 D05 D05 D04 D03 D02 D01 D03 GND ST SELSCN2 SCLV2 RECSTRT DEDR3 DEDR3 DEDR3 SBSTP SBSTP SBSTP SBSTP SBSTP SBSTP SBSTP	In/Out	Ground Memory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) NOTE Table (Low fixed) NOTE Tab
90 91 92 93 94 98 98 99 99 100 102 103 104 105 106 109 111 111 112 113 114 115 116 117	DO11 DO10 DO6 GND DO6 DO7 DO6 DO5 DO5 DO5 DO5 DO5 DO5 SD5 SD5 SD5 SD5 SD5 SD6 SD7 SD6 SD7 SD7 SD6 SD7 SD7 SD6 SD7	INFOLK IN	Ground (CO1: LSB) Power supply (+5V) Ground Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC data to DCI (9 MHz/4 bit) (DEDR0: LSB) Sync. block start pulse (PEC) Ground Power supply (+5V) Ground Power supply (+5V)
90 91 92 93 94 95 98 99 99 99 100 101 102 103 104 105 107 106 107 108 110 111 111 111 115 116	DO11 DO10 DO20 GND DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO	INFOUR IN	Ground Memory data (18 bit) (DG1: LSB) Power supply (-3V) Ground Not used (Low fixed) REC fact start putse (DED) Sync. block start putse (PE) Ground Power supply (-3V) Ground Power supply (-3V) Ground Ground
90 91 92 93 94 98 98 99 99 100 102 103 104 105 106 109 111 111 112 113 114 115 116 117	DO11 DO10 DO6 GND DO6 DO7 DO6 DO5 DO5 DO5 DO5 DO5 DO5 SD5 SD5 SD5 SD5 SD5 SD6 SD7 SD6 SD7 SD7 SD6 SD7 SD7 SD6 SD7	INFOLK IN	Ground (CO1: LSB) Power supply (+5V) Ground Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC data to DCI (9 MHz/4 bit) (DEDR0: LSB) Sync. block start pulse (PEC) Ground Power supply (+5V) Ground Power supply (+5V)
90 91 92 93 94 95 96 99 99 99 100 102 103 106 106 106 107 108 109 111 111 111 111 115 116 117 117 118	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO5	INFOUR IN	Ground Memory data (18 bit) (DG1: LSB) Power supply (-3V) Ground Not used (Low fixed) REC track start pulse (DCDR3: MSB) REC date to DCI (9 MHz/4 bit) (DEDR0: LSB) Sync: block start pulse (PE) Sync: block start pulse (PE) Sync: block start pulse (PE) Ground Power supply (-3V) Ground Power supply (-3V) Ground Synsian clock input (18 MHz) from CLK OSC IC (IC401) Ground
90 91 92 93 94 98 98 99 99 100 102 103 106 106 107 108 119 111 111 111 115 117 118 119 120	DO11 DO10 DO6 GND DO6 GND DO7 DO6 DO5 DO5 DO5 DO5 DO5 SD5 SD5 SD5 SD7 SD6 SD7 DO6 DO3 DO7 DO6 DO3 DO7 DO6 DO5 DO7 DO6 DO5 DO7 DO6 DO7 DO7 DO6 DO7 DO7 DO6 DO7	INPOUL INP	Ground (CO1: LSB) Power supply (+3V) Ground Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC data to DCI (9 MHz/4 bit) (DEDR0: LSB) Sync. block start pulse (PE) Sync. block start pulse (PEC) Ground Power supply (+3V) Ground Power supply (+3V) Ground System clock input (18 MHz) from CLK OSC IC (ICA01) Ground
90 91 92 93 94 95 98 99 99 99 100 101 102 103 104 105 107 106 107 108 110 111 111 111 111 111 111 111 111	DO11 DO10 DO20 GND DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO	INFOUR IN	Ground (DO1: LSB) (DO1: LSB) Power supply (-SV) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack start pulse (DEDR3: MSB) REC fixed start pulse (DEDR0: LSB) Sync. block start pulse (PE) Sync. block start pulse (PEC) Ground Power supply (-SV) Ground Power supply (-SV) Ground Sysiam clock input (18 MHz) from CLK OSC IC (ICA01) Ground Sysiam clock input (18 MHz) from CLK OSC IC (ICA01) Ground
90 91 92 93 94 98 98 99 99 100 102 103 106 106 107 108 119 111 111 111 115 117 118 119 120	DO11 DO10 DO6 GND DO6 GND DO7 DO6 DO5 DO5 DO5 DO5 DO5 SD5 SD5 SD5 SD7 SD6 SD7 DO6 DO3 DO7 DO6 DO3 DO7 DO6 DO5 DO7 DO6 DO5 DO7 DO6 DO7 DO7 DO6 DO7 DO7 DO6 DO7	INPOUL INP	Ground (DO1: LSB) (DO1: LSB) Power supply (-SV) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack start pulse (DEDR3: MSB) REC fixed start pulse (DEDR0: LSB) Sync. block start pulse (PE) Sync. block start pulse (PEC) Ground Power supply (-SV) Ground Power supply (-SV) Ground Sysiam clock input (18 MHz) from CLK OSC IC (ICA01) Ground Sysiam clock input (18 MHz) from CLK OSC IC (ICA01) Ground
90 91 92 93 94 95 96 99 99 99 100 102 103 106 106 107 108 109 111 111 111 111 111 111 111 111 111	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO5 DO7 DO6 DO5 DO7 DO6 DO7 DO6 DO7 DO7 DO6 DO7	INFOLK IN	Ground (CO1: LSB) (CO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack start pulse (DEDR3: MSB) REC diets to Cci (9 MHz/4 bit) (DEDR0: LSB) Sync: block start pulse (PEC) Ground Power supply (-3V) Ground Power supply (-3V) Ground Power supply (-5V) Ground Synsiem clock input (18 MHz) from CLK OSC IC (IC401) Ground Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Syncie block start pulse (PEC)
90 91 92 93 94 98 98 99 99 100 102 103 104 105 106 107 108 109 111 111 112 113 114 115 117 118 119 120 121 121 121 121	DO11 DO10 DO69 GND DO6 DO7 DO6 DO7 DO6 DO5 DO5 DO5 DO5 DO5 SD5 DO5 SD5 SD5 SD5 SD5 SD5 SD5 SD5 SD5 SD6 SD6 SD7	INPOUL IN	Ground Memory data (18 bit) (DG1: LSB) Power supply (-5V) Ground Not used (Low fixed) NEC tack start pulse (DEDRO: LSB) REC data to DCI (9 MHz/4 bit) (DEDRO: LSB) Sync. block start pulse (PE) Sync. block start pulse (PE) Sync. block start pulse (PE) Ground Power supply (-3V) Ground Synsian clock input (18 MHz) from CLK OSC IC (IC401) Ground Sync block error
90 91 92 93 94 95 96 99 99 99 100 102 103 106 106 107 108 109 111 111 111 111 111 111 111 111 111	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO7 DO6 DO5 DO7 DO6 DO5 DO7 DO6 DO7 DO6 DO7 DO7 DO6 DO7	INFOLK IN	Ground (CO1: LSB) (CO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack start pulse (DEDR3: MSB) REC diets to Cci (9 MHz/4 bit) (DEDR0: LSB) Sync: block start pulse (PEC) Ground Power supply (-3V) Ground Power supply (-3V) Ground Power supply (-5V) Ground Synsiem clock input (18 MHz) from CLK OSC IC (IC401) Ground Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Coround Syncie block start pulse (PEC) Ground Syncie block start pulse (PEC)
90 91 92 92 93 94 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	DO11 DO10 DO20 GND DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO5 DO	In/Out In	Ground Memory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) NOTE (SED) PREC take tant pulse (PE) Sync. block start pulse (PE) Ground Power supply (+3V) Ground Synsian clock input (18 MHz) from CLK OSC IC (IC401) Ground Sync block error (ICEDP2: MSB) PB data from DCI (9MHz/4 bit)
90 91 92 93 94 95 96 99 99 99 100 102 103 104 105 106 109 109 111 111 111 111 111 111 111 111	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO7 DO6 DO7	INPOUL IN	Ground (CO1: LSB) (CO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack star pulse (DEDR3: MSB) REC fixed start pulse (DEDR0: LSB) Sync: block start pulse (PEC) Ground Power supply (-3V) Ground Power supply (-3V) Ground Power supply (-3V) Ground Ground Coround System clock input (18 MHz) from CLK OSC IC (IC401) Ground Ground Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401)
90 91 92 93 94 95 96 97 100 102 103 104 105 106 106 107 108 119 111 111 111 111 111 112 112 122 123 124 125 126 127 128	DO11 DO10 DO69 GND DO6 GND DO7 DO6 DO5	In/Out In	Ground Memory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) NOTE (SED) PREC take tant pulse (PE) Sync. block start pulse (PE) Ground Power supply (+3V) Ground Synsian clock input (18 MHz) from CLK OSC IC (IC401) Ground Sync block error (ICEDP2: MSB) PB data from DCI (9MHz/4 bit)
90 91 92 93 94 95 96 99 99 99 100 102 103 104 105 106 109 109 111 111 111 111 111 111 111 111	DO11 DO10 DO9 GND DO9 GND DO7 DO6 DO7 DO7 DO6 DO7	In/Out In	Ground (CO1: LSB) (CO1: LSB) Power supply (-3V) Ground Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) Not used (Low fixed) REC rack star pulse (DEDR3: MSB) REC fixed start pulse (DEDR0: LSB) Sync: block start pulse (PEC) Ground Power supply (-3V) Ground Power supply (-3V) Ground Power supply (-3V) Ground Ground Coround System clock input (18 MHz) from CLK OSC IC (IC401) Ground Ground Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401) Ground System clock input (19 MHz) from CLK OSC IC (IC401)
90 91 92 93 94 95 96 97 100 102 103 104 105 106 106 107 108 119 111 111 111 111 111 112 112 122 123 124 125 126 127 128	DO11 DO10 DO69 GND DO6 GND DO7 DO6 DO5	INFOUR INF	Ground (Ground Marmory data (18 bit) (DG1: LSB) Power supply (+3V) Ground Not used (Low fixed) REC track start pulse (DEDR3: MSB) REC tasts to DCI (9 MHz/4 bit) (DEDR0: LSB) Sync: block start pulse (PB) Sync: block start pulse (PB) Sync: block start pulse (REC) Ground Power supply (+3V) Ground Power supply (+3V) Ground Sync: block enor (CEC) (CECP3: MSB) PB data from DCI (9MRz/4 bit) (DEDP0: LSB)

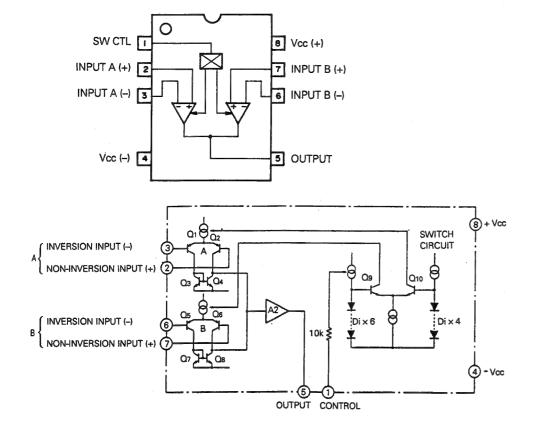
PLSL1019 [JVC] (512k Byte One Time P-ROM)



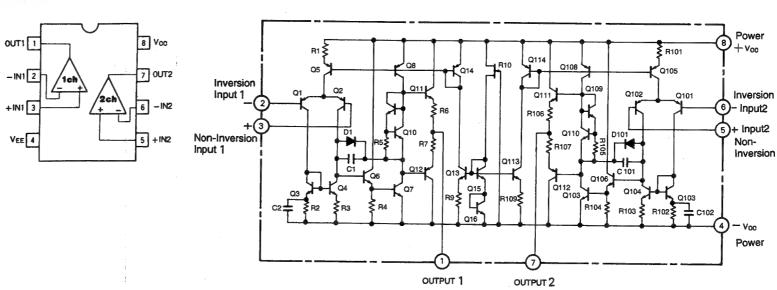
■ M66312FP-X [MITSUBISHI] (8 Bit LED Driver with Shift Register and Latched 3-State Outputs)



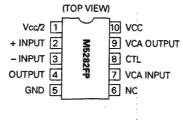
M5201FP-X [MITSUBISHI] (Switch Op Amp.)

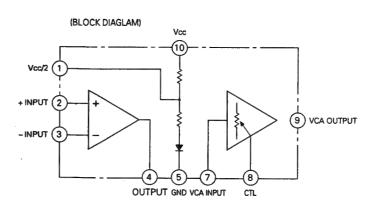


M5218AFP-X [MITSUBISHI] (Dual Op.Amp)

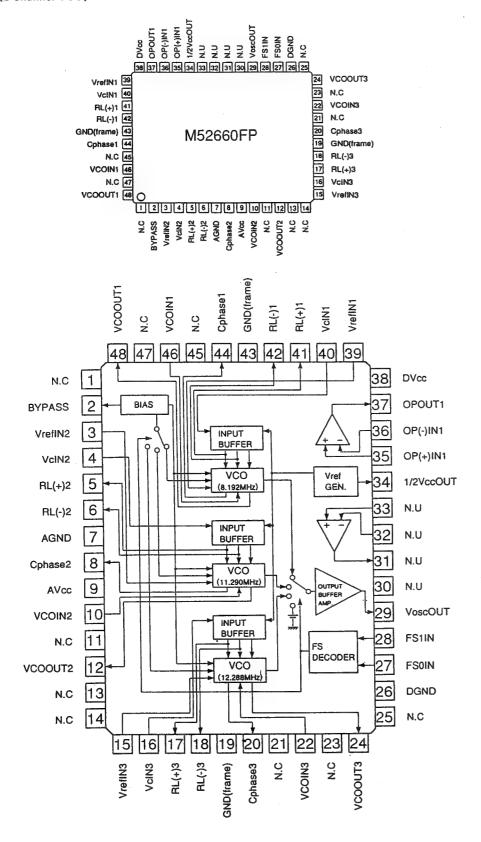


M5282FP-X [MITSUBISHI] (VCA and Op Amp.)

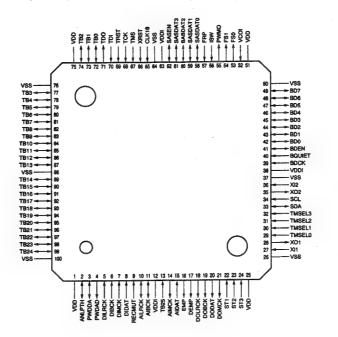




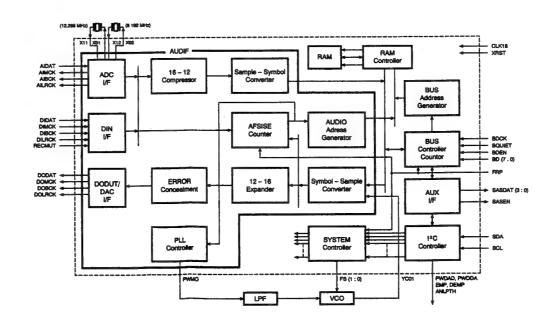
M52660FP [MITSUBISHI] (3 Channel VCO)



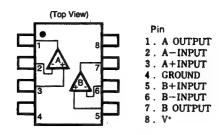
■ M65401FP [MITSUBISHI] (Digital Signal Processor for Audio Signal)



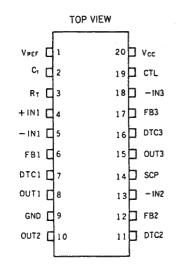
Pin Number	Pin Name	Function VO		Pin Number	Pin Name	Function	٧O
1	VDD	Outer Power	-	51	VDD	Outer Power	<u> -</u>
2	ANLPTH	Analog loop through(H:through)	В	52	VCOI	VCO clock input for PLL	1
3	PWDDA	Power down for DAC(L:power down)	В	53	FS[0]	Fs select for VCO	0
4	PWDAD	Power down for ADC(L:power down)	0	54	FS(1)	Fs select for VCO	0
5	DILRCK	L/R clock from Digital In	1	55	PWMO	Phase comparator output of PLL	0
6	DIBCK	Bit clock from Digital In	13	56	ISW	1mA or 4mA Change Control ("H"4mA,"L"1mA)	ı
7	DIMCK	Master clock from Digital In	1	57	FRP	Frame Start from Shuffling	1
8	DIDAT	Serial Data from Digital In	1	58	SASDATT01	Line Data to/from Shuffling	В
9	RECMUT	Rec Data Mute	ī	59	SASOAT[1]	Line Data to/from Shuffling	В
10	AILROK	L/R clock for ADC	В	80	SASDATI21	Line Data to/from Shuffling	В
11	AIBCK	Bit clock for ADC	В	61	SASDAT[3]	Line Data to/from Shuffling	В
12	VDDI	Inner Power	-	62	SASEN	Line Data Enable to Shuffling	В
13	TB[25]	Test Bus	T	63	VDDI	Inner Power	-
14	AIMCK	Master clk for ADC(256 • fs)	0	64	VSS	GND	-
15	AIDAT	Serial Data from ADC	П	65	CLK18	Master clock (18MHz)	ī
16	EMP	ADC emphasis control	6	66	XRST	Reset (Lireset)	ī
17	DEMP	DAC De-emphasis control	0	67	TMS	Boundary Scan Test (Test Mode Select)	1
18	DOLRCK	L/R clock for DAC/D-OUT	6	68	TCK	Boundary Scan Test (Test Clock)	1
19	DOBCK	Bit clock for DAC/D-OUT	0	80	TRST	Boundary Scan Test (Test Reset)	1
20	DODAT	Seriel Data for DAC/D-OUT	1	70	TDI	Boundary Scan Test (Test Data Input)	1
21	DOMCK	Master clock for DAC/D-OUT(256 • fs)	6	71	TDO	Boundary Scan Test (Test Data Output)	0
22	ST1	Scan Test Mode Select(L:enable)	ī	72	TB[0]	Test Bus	9
23	ST2	Scan Test Clock	1	73	TB(1)	Test Bus	В
24	ST3	Scan Test Data Input	T	74	TB[2]	Test Bus	В
25	VDD	Outer Power	÷	75	VDD	Outer Power	-
26	VSS	GND	-	76	VSS	GND	-
27	XII	12.288MHz Xtal port(48kHz)	-	77	TBt3t	Test Bus	В
28	XO1	12.286MHz X'tal port(48kHz)	+	78	TB[4]	Test Bus	В
29	TMSELIO	Test Mode Select	H	79	TB/51	Test Bus	В
30	TMSEL[1]	Test Mode Select	i	80	TB(6)	Test Bus	В
31	TMSEL[1]	Test Mode Select	1	81	TB[7]	Test Bus	8
32	TMSEL(2)	Test Mode Select	1	82	TB(8)	Test Bus	В
33	SDA	I2C data line	В	83	7B[9]	Test Bus	В
34	SCL	I2C clock line	1	84	TB(10)	Test Bus	В
35	X02	8.192MHz X'tal port(32kHz)	0	85	TB(11)	Test Bus	В
36	XI2	8.192MHz X'tal port(32kHz)	H	86	TB[12]	Test Bus	В
37	VSS	GND	H	87		Test Bus	В
38	VDDI	Inner Power	-	88	TB[13]	GND	-
	BDCK	DVC bus clock	1	89		Test Bus	В
39 40	BOUJET	DVC bus control	H	90	TB(14)	Test Bus	В
41	- BDEN	DVC bus enable	В	91	TB(16)	Test Bus	В
			틞	82	 	Test Bus	В
42	BD[0]	DVC bus data	B		TB[17]		В
43	BD[1]	DVC bus data	H	93	TB[18]	Test Sus	В
44	BD[2]	DVC bus data	-	94	TB[19]	Test Bus	_
45	BD[3]	DVC bus data	В	95	TB[20]	Test Bus	В
46	BD[4]	DVC bus data	В	96	TB[21]	Test Bus	В
47	BD[5]	DVC bus data	В	97	TB(22)	Test Bus	В
48	BD[6]	DVC bus data	В	98	TB[23]	Test Bus	8
49	BD[7]	DVC bus deta.	В	99	1B[24]	Test Bus	В
50	VSS	GND	L-	100	VSS	GND	-

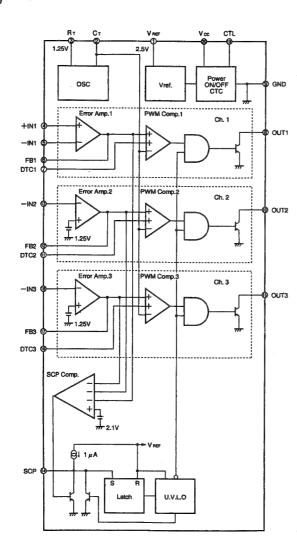


MC14577CF-X [MOTOROLA] (Dual Op.Amp)

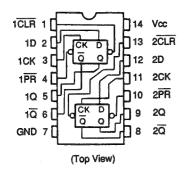


■ MB3782PF-X [FUJITSU] (Switching Regulator Controller)



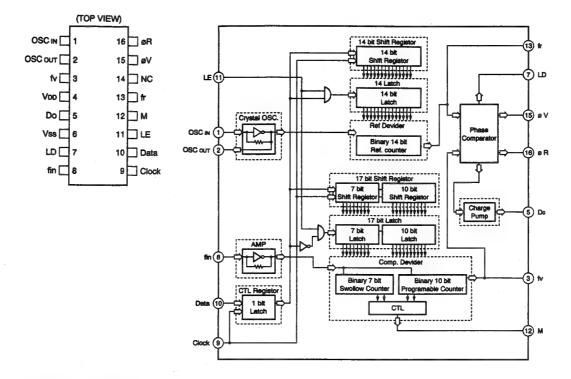


■ MC74HC74AF-X [MOTOROLA] (Dual D-Type Positive-EDGE-Triggered Flip-Flops With Preset AND Clear)

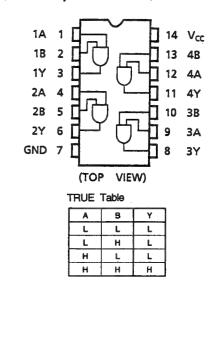


TRUE Table						
	INP	UTS		OUTPUTS		FUNCTION
CLR	PR	Ð	СК	Q	Q	FUNCTION
L	Н	Х	Х	L	Н	CLEAR
Н	ال	Х	Х	Н	L	PRESET
L	ال	- X	Х	Н	Н	-
Н	Н	L	1	L.	Н	_
Н	Н	Н	7	Н	L	_
Н	Н	X	7_	Qn	Qn	NO CHANGE
X : Don't care						

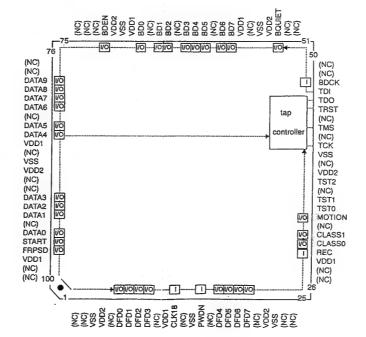
■ MB87087PF [FUJITSU] (Serial Input Phase Lock Loop Frequency Synthesizer)

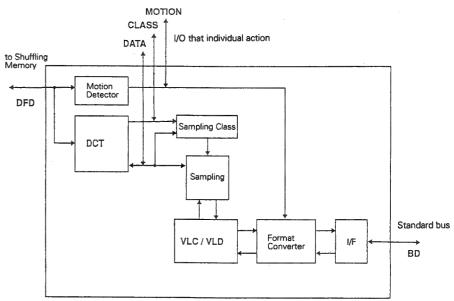


MC74HC08AF-X [MOTOROLA] (Quad 2-Input AND Gates)

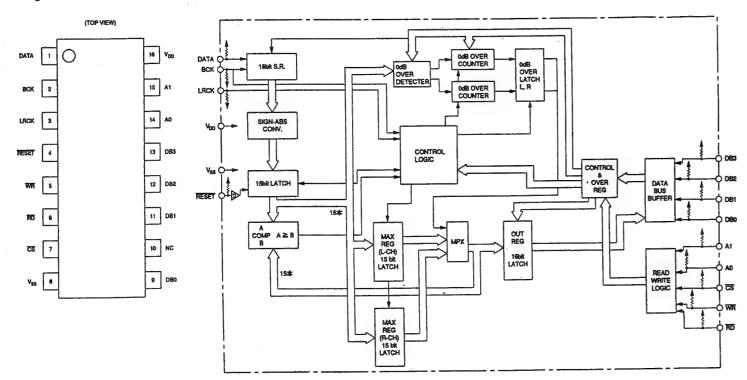


MN67371F [MATSUSHITA] (Video Compression/Decompression LSI)

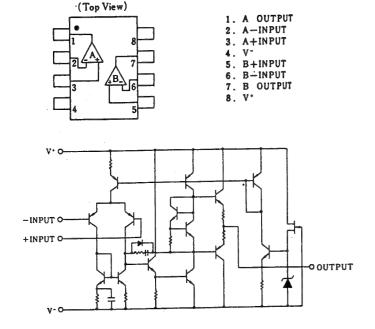




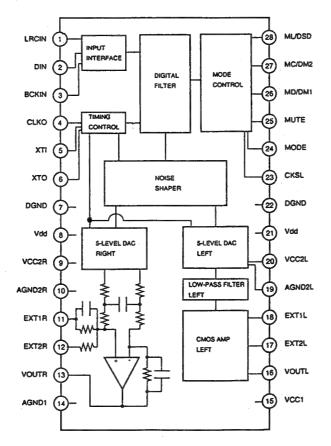
■ MSM6338MS-K [OKI] (Digital Peak Detector for PCM Audio)



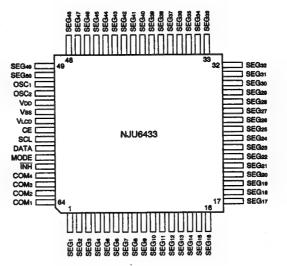
NJM2068M-D-X [JRC] (Dual Low-Noise Op.Amp)



PCM1710U/G/-X [BAR BRAWN] (D/A Converter)

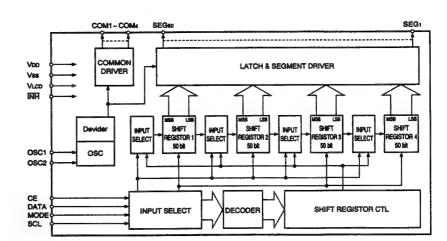


NJU6433FB2 [JRC] (1/4 Duty LCD Driver)

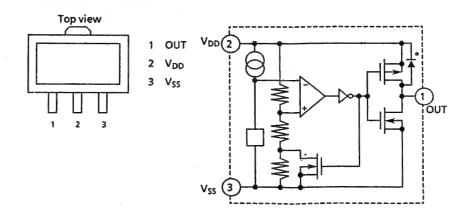


(TOP VIEW)

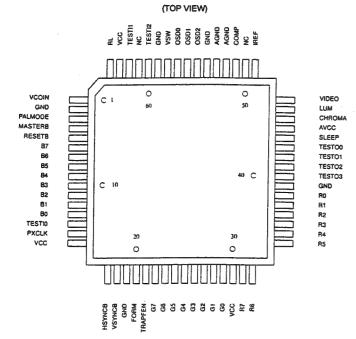
No.	Symbol	Function
1~50	SEG1-SEG50	Segment output for LCD driver
51	OSC1	OSC terminal
52	OSC2	OSC terminal
53	VDD	
54	VSS	GND
55	VLCD	Power source for LCD drive
56	CE	H level : Data input
		Drop-down edge : Data latch
		L level : Disable
57	SCL	Clock input for serial data trancefar.
58	DATA	Serial data input.
59	MODE	H level : Mode seting
		L level : Data input for LCD display
60	INH	L level : LCD is not display
		H level : LCD is display
61~64	COM4~COM1	Common output for LCD drive.

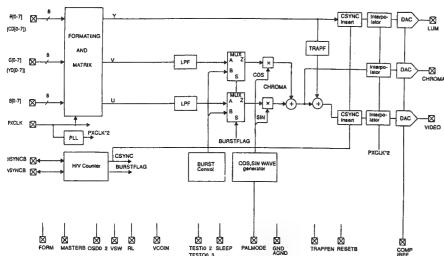


S-8054HN-CB-X [SEIKO INSTRUMENTS] (C-MOS Voltage Detector)

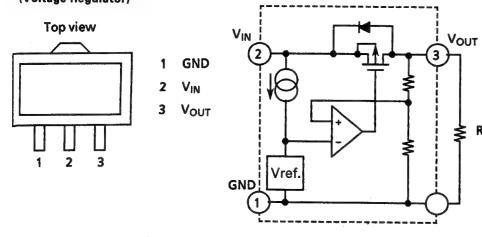


RL5C292-001 [RICOH] (Digital Video Encoder)





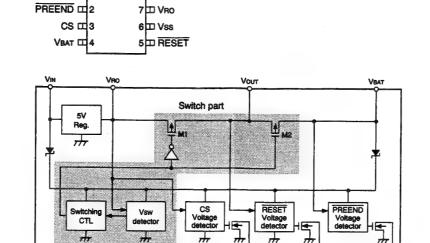
S-81224PG-PX-X [SEIKO] S-81240PG-PJ-X [SEIKO] (Voltage Regulator)



■ S-8420BF-X [SEIKO] (Battery Back-up Switching)

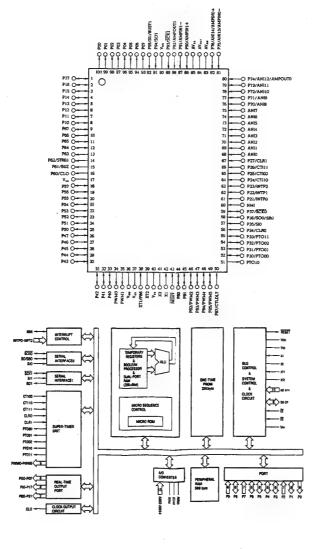
Top view

Vout II

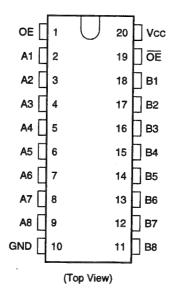


CS

■ SC78148GF-026 [JVC] (8-Bit Micro Computer)

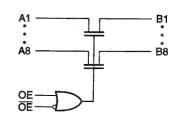


M SN74CBT3245PW-X [TEXAS] (8 Bit Cross Bar Switch)

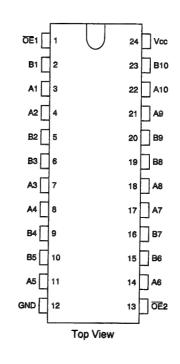


Inp	uts	Inputs/Outputs
OE	ŌĒ	A, B
X	L	A=B
Н	Х	A=B
L	н	Z

- H : High Level L : Low Level
- X : Don't Care
- Z : High Impedance

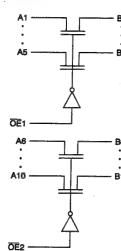


SN74CBT3384PW-X [TEXAS] (10 Bit Cross Bar Switch)

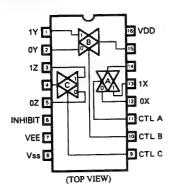


ŌĒ1	ŌĒ2	B1 – B5	B6 B10
L	L	A1 – A5	A6 – A10
L	н	A1 – A5	z
н	L	z	A6 – A10
н	н	z	z

- H: High Level L: Low Level X: Don't Care
- Z : High Impedance



TC4053BF-X [TOSHIBA] (Triple 2 Channel Analog Multiplexers/ Demultiplexers)



TRUTH TABLE

CON	ITROL	"ON" CHANNEL			
INHIBIT	С	В	A	4053BP 4053BF	
L	L	L	L	0X, 0Y, 0Z	
L	L.	L	Н	1X, 0Y,0Z	
L	L	н	L	0X, 1Y, 0Z	
L	L	Н	Н	1X, 1Y, 0Z	
L	н	L	L	0X, 0Y, 1Z	
L	Н	L	Н	1X, 0Y, 1Z	
L	Н	Н	L	0X, 1Y, 1Z	
L	Н	Н	Н	1X, 1Y, 1Z	
н	•	*	*	NOTE	
* Don't Care.					

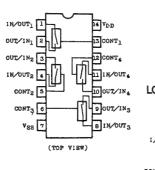
TC4S30F-X [TOSHIBA] (Single Exclusive OR Gate)



TRUE TABLE

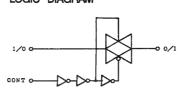
INF	PUT	OUTPUT
Α	В	Х
L	L	L
L	н	н
н	L	н
н	Н	L

■ TC4066BF-X [TOSHIBA] (Quad Bilateral Switch)

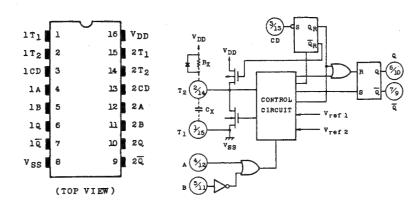


TRUTH TA	BLE
CONTROL	Impedance Bet
-	05~5×102

LOGIC DIAGRAM



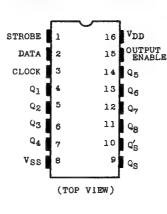
■ TC4538BF-X [TOSHIBA] (Dual Precision Monostable Multivibrator)



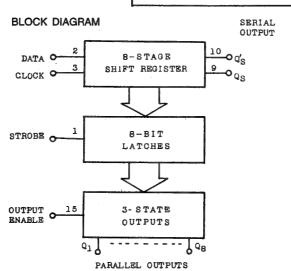


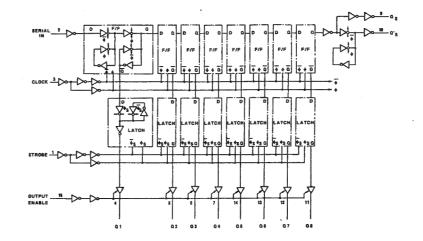
	INPU	T	OUT	PUT	
A	В	CD	Q	Q	NOTE
Ī	н	н	Л	T	OUTPUT ENABL
Ţ	L	н	L	н	INHIBIT
н	1	н	L	н	INHIBIT
L	1	н	π	Л	OUTPUT ENABLE
*	٠	L	L	н	INHIBIT
		-	r 1		

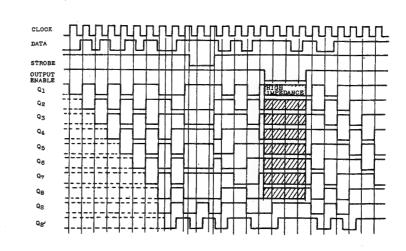
■ TC4094BF-X [TOSHIBA] (8 Stage Bus Compatible Shift/Store Register)



	TRUTH	TABLE	•								
	7.	0.75	0,5	_	ſ	P0	so				
	CL	OE	ST	D	Ql	Qn	QS	₫ _S			
		H	Н	L	L	Q _n -1	Q7	NC			
	5	Н	н	Н	H	Q _n -1	Q7	NC			
	5	н	L	*	NC	NC	Q7	ИС			
	Ŀ	L	*	*	HZ	HZ	Q7	NC			
	J.	H	*	*	NC	NC	NC	Qg			
	J.	L	*	*	HZ	HZ	NC	Qg			
	CL=	Clock	٤.		,	* = Do:	a't c	are			
	OE=	Outpu	ıt Er	able	. 1	NC=No	Chan	ge			
	ST=	ST=Strobe HZ=High									
	D = Data Impedance										
	P0=	Paral	lel	Outp	uts						
	S0=	Seria	1 Ou	tput							
- 1											



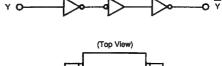


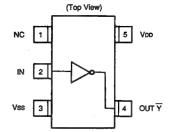


TC4S584F-X [TOSHIBA] (Schmitt Triggerd Single Inverte Gate)



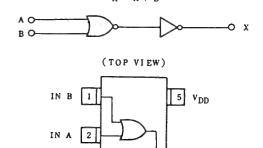
■ TC4S69F-X [TOSHIBA] (Inverter Gate)





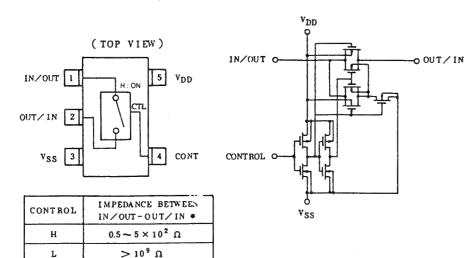
TC4S71F-X [TOSHIBA] (2-input OR Gate)

V_{SS} 3

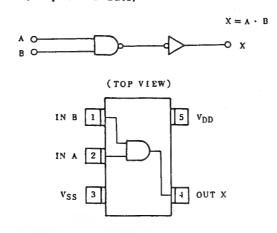


4 OUT X



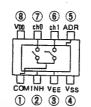


TC4S81F-W [TOSHIBA] (2-Input AND Gate)



TC4S81F-X [TOSHIBA] (Refer to TC4S81F-W.)

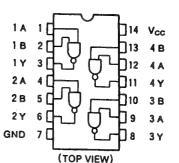
■ TC4W53F-X [TOSHIBA] (2-Channel Multiplexer)



*Don't care

TRUE TABLE

TC74HC00AF-X [TOSHIBA] (Quad 2-Input NAND Gates)

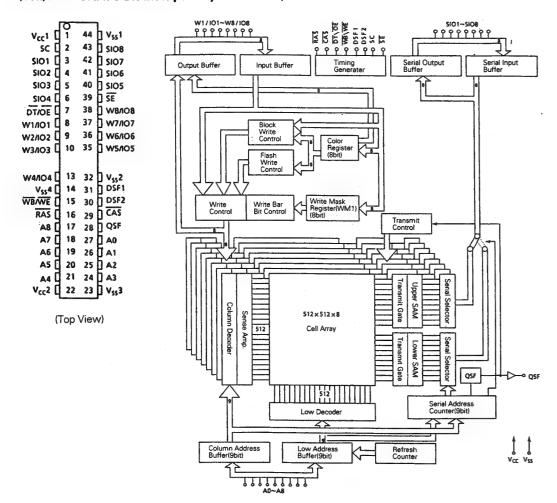


TRUE Table								
A	В	Y						
L	L	Н						
L	Н	Н						
Н	L	Н						
н	Н	L						

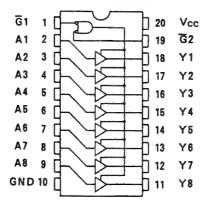
TC74HC08AF-X [TOSHIBA] (Refer to MC74HC08AF-X.)

■ TC528267FT-70-X [TOSHIBA] (262,144 word x 8 Bit Multiport Dynamic RAM)

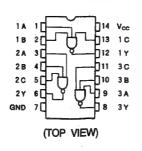
% See Electrical Characteristics



TC74ACT541F-X [TOSHIBA] (Octal Bus Buffer (3-State))

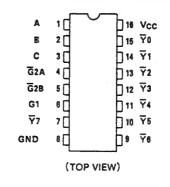


TC74HC107AF-X [TOSHIBA] (Triple 3-Input NAND Gates)



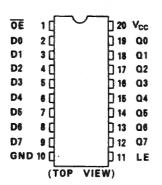
TRU	TRUE Table							
Α	В	C	Υ					
L	Х	X	Н					
Х	L	X	Н					
X	Х	L	Н					
Н	Н	Н	L					
X:1	On't C	ere						

TC74HC138AF-X [TOSHIBA] (3-Line to 8-Line Decoders/Demultiplexers)



	INPUTS OUTPUTS													
E	NAB1	.ε	\$	ELEC	Т		1			Г		_		SELECTED OUTPUT
G1	G2A	G2B	С	В	A	₹o	Ψı	¥2	₹3	¥ 4	₹5	∀ 6	₹7	
L	Х	X	х	х	Х	н	Н	н	н	Н	н	Н	н	NONE
X	н	X	х	X	X	H	Н	н	н	н	н	Н	Н	NONE
X.	X	Н	X	X	X	Н	н	н	H	Н	н	Н	н	NONE
H.	L	L	L	L	L	L	Н	н	н	н	н	Н	Н	Y0
н	L	L	L	L	H	н	L	H	н	Н	н	н	н	Ϋ́1
н	L	L	L	н	L	н	Н	L	н	н	н	н	н	Y2
н	L	L	Ł	н	Н	н	Н	н	L	Н	Н	н	Ħ	¥3
Н	L	L	Н	L	L	н	н	н	н	L	Н	н	н	Ÿ4
Н	L	L	н	L	н	н	н	н	н	н	L	н	н	₹5
н	L	L	н	Н	L	н	н	н	н	н	н	L	н	Ÿ6
н	L	L	Н	н	Н	H	н	Н	н	н	н	Н	L	Ÿ7

■ TC74HC573AF-X [TOSHIBA] (Octal D-Type Latch With NON-Inverted 3-State Outputs)

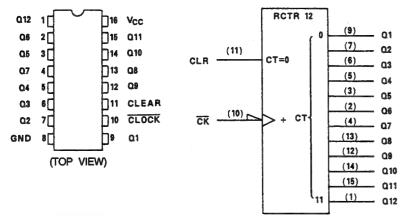


TRUE Table									
- 11	NPUT	S	OUTPUTS]					
OE	LE	D	Q						
Н	Х	X	HZ						
L	L	Х	Q _n	l					
L	Н	L	L						
i.	Н	Н	Н						

X : Don't care.
Z : Hi impedance

Qn : Level of Q output before LE becomes "L".

■ TC74HC4040AF-X [TOSHIBA] (Synchronous 12-Bit Binary Ripple Counters)

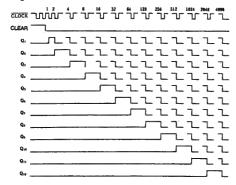


TRUTH TABLE

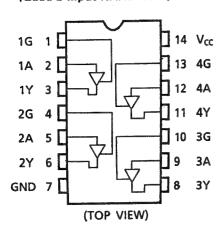
CLOCK	CLEAR	OUTPUT STATE
X	Н	ALL OUTPUTS = "L"
5	L	NO CHANGE
7_	L	ADVANCE TO NEXT STATE

X ; Don't care

Timing chart



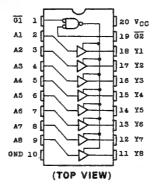
TC74VHC126F-X [TOSHIBA] (Quad 2-Input NAND Gate)



INP	UTS	OUTPUTS	
G	Α	Y	
L	Х	Z	
Н	L	L	
Н	Н	Н	

X: Don't Care Z: High Impedance

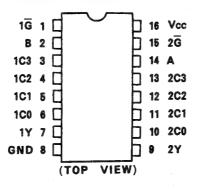
■ TC74HCT541AF-X [TOSHIBA] (Octal Bus Buffer With Inverted 3-State Outputs)



TRUE Table

	ООТРОТ		
G ₁	G2	Α	Υ
L	L	Н	Н
L	L	L	L
Н	X	Х	Z
X	Н	Х	Z

■ TC74VHC153F-X [TOSHIBA] (Dual 4-Channel Multiplexer)

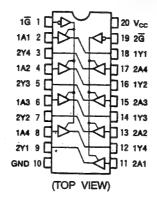


TRUTH TABLE

	ECT UT8	ι	DATA INPUTS				OUT	Y TU
В	A	C0	C1	C2	C3	Ğ	HC163A	HC253A
X	X	Х	X	X	X	Н	L	Z
L	L	L	X	X	X	L	L	L
L	L	H	X	X	Х	L	H	Н
L	Н	X	L	X	X	L	L	Ł
L	Н	X	Н	X	X	L	H	H
Н	L	X	X	L	X	L	L	L
H	L	X	Х	Н	X	L	Н	Н
H	Н	X	X	X	L	L	L	L
Н	н	X	X	X	Н	L	Н	H

X Don't Care
Z High Impedance

■ TC74LCX244F-X [TOSHIBA] (Low Voltage Octal Bus Buffer with 5V Tolerant Input And Outputs)

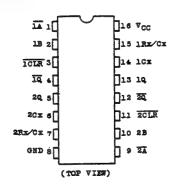


TRUE Table

UTS	OUTPUTS						
An	Ϋ́n						
L	L						
Н	Н						
Х	Z						
	A _n						

X Don't Care
Z High Impedance

■ TC74VHC221AF-X [TOSHIBA] (Dual Monostable Multivibrators (With Schmitt Trigger Input))

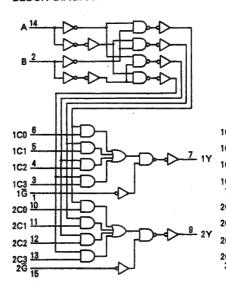


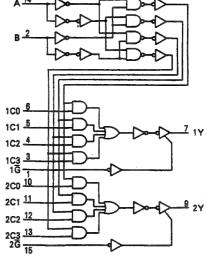
True Table

	inputs			UTS	NOTE
Ī	В	CL	ď	Q	20.12
-	H	H	7	7	OUTPUT ENABLE
T .	L	H	L	B	INHIBIT
н	I	H	L	H	INHIBIT
L		H	7	7	OUTPUT ENABLE
L	H	7	7	T	OUTPUT ENABLE
I	X	L	L	Ħ	INHIBIT

I : DON'T CARE

BLOCK DIAGRAM





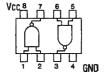
- TC74VHC244F-X [TOSHIBA] (Refer to TC74LCX244F-X.)
- TC74VHC541F-X [TOSHIBA] (Refer to TC74HCT541AF-X.)
- TC74VHC74F-X [TOSHIBA] (Refer to MC74HC74AF-X.)
- TC74VHCT541F-X [TOSHIBA] (Refer to TC74HCT541AF-X.)
- TC7S04F-X [TOSHIBA] (Inverter)

Pin arangement

NC 1 5 VDD

IN 2 4 OUT

TC7W00F-X [TOSHIBA]
[2 Input Dual NAND Gate]



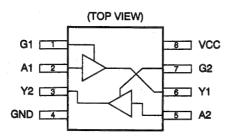
TRUE Table

Α	В	Х
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

TC7W04F-X [TOSHIBA]
(Triple Inverter Gate)



■ TC7W126FU-X [TOSHIBA] (Dual Bus Buffer)

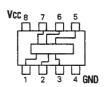


Truth Table

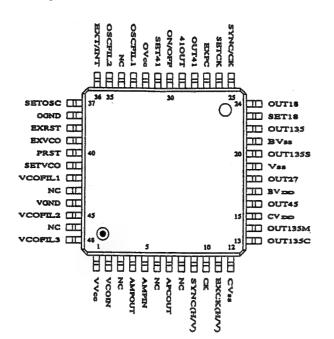
Hutti tal	JIE	
INPUTS		OUTPUTS
G	Α	Υ
L	X	Z
Н	L	L
Н	Н	Н

X : Don't Cate
Z : High Impedance

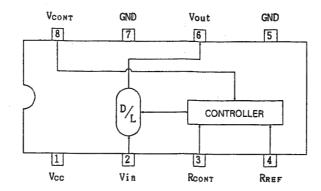
TC7W74F-X [TOSHIBA] (D-Q Flip-Flop)



■ UPC2384GA [NEC] (Digital VTR PLL)

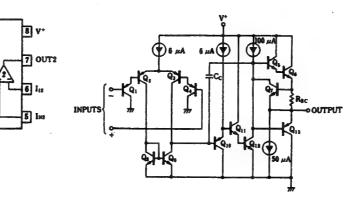


TK16031AMTL [TOKO] (Analog Delay line)

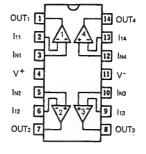


UPC358G2-X [NEC] (Dual Op.Amp.)

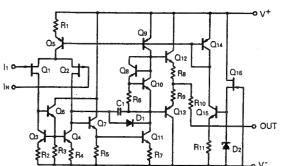
OUT: 1



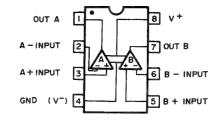
(Low Noise J-FET Quad Op.Amp.)

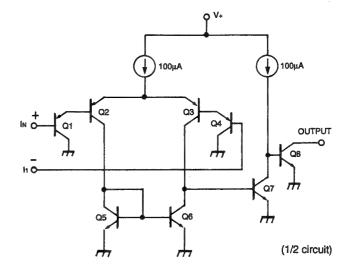


UPC4074G2-X [NEC]

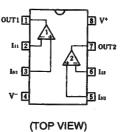


■ UPC393G2-X [NEC] (Dual Comparator)





■ UPC4082G2-X [NEC] (J-FET Input Dual Op-Amplifire)





(1)

PRST -> 1/10, 1/31

SW3

54MHz or 41.85MHz

1/3

1/4

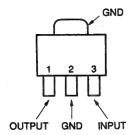
1/2

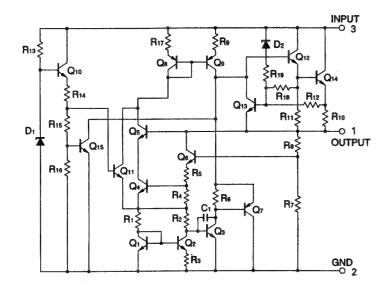
1/31

1/10

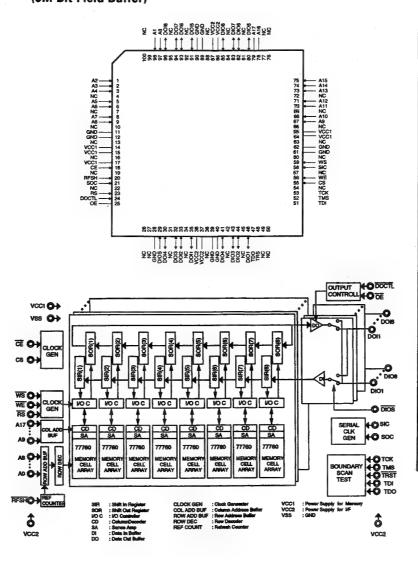
1/2

■ UPC78L05T-X [NEC] (Regulator)



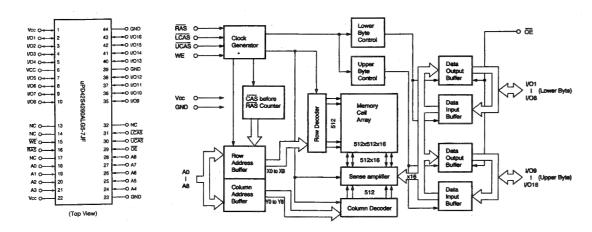


■ UPD489001 [NEC] (5M Bit Field Buffer)

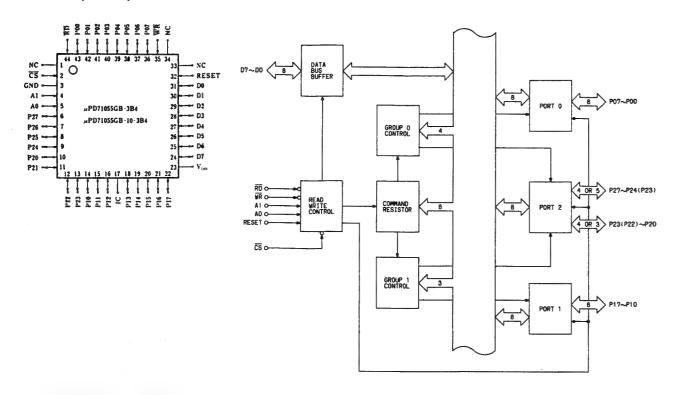


Pin No.	Label	In/Out	Description	Pin No.	Label	In/Out	Description
1	A2	In		51	TDI	-	•
2	A3	In	Shuffle memory address (18 MHz, 18 bit)	52	TMS	-	•
3	A4	In	l	53	TCK	-	•
4	NC	-	Not used	54	NC	-	Not used
5	A5	in	Challe manner address (48 kB/s 48 kB)	55	cs	-	High fixed
- 8	A6	in	Shuffle memory address (18 MHz, 18 bit)	56	WE	In	Write enable from SHUFFLE IC
7	NC	-	Not used	57	NC	-	Not used
8	A7	In	Shuffle memory address (18 MHz, 18 bit)	58	SIC	In	Clock input (18 MHz)
9	A8	In		59	ws	In	Shuffle memory control write strobe
10	NC	-	Not used .	60	NC ·	-	Not used
11	GND	-	Ground	61	GND	-	Ground
12	GND	-		62	GND	-	Ground
13	NC	-	Not used	63	NC	-	Not used
14	VCC1	-	Power supply (+3 V)	64	VCC1	-	Power supply (+3 V)
15	VCC1	-	, one appropriate	65	VCC1	-	A come arebby (ac a)
16	NC	-	Not used .	66	NC	-	Not used
17	VCC1	-		67	A9	In	Chuffle mannon address (18 Miles 18 MI)
18	CE	In	Shuffle memory chip enable	68	A10	ln	Shuffle memory address (18 MHz, 18 bit)
19	NC	-	Not used	69	NC	-	Not used
20	RFSH	-	-	70	A11	In	Shuffle memory address (18 MHz, TB bit)
21	soc	In	Clock input (18 MHz) from CLK OSC IC	71	A12	in	Secure manney accress (10 MML, 18 DR)
22	NC	-	Not used	72	NC	-	Not used
23	RS	in	Shuffle memory read strobe	73	A13	in	
24	DOCTL	în	Shuffle memory data output control	74	A14	în	Shuffle memory address (18 MHz, 18 bit)
25	OE	-	Low fixed	75	A15	ln	
26	NC	-	Not used	76	NC	-	Not used
27	NC		Not used	77	NC	-	Not used
28	GND		Ground	78	A16	, In	Shuffle memory address (18 MHz, 18 bit)
29	DIOS	in	Shuffle memory data I/O select	79	A17	In	
30	DOH4		Shuffle memory data (8 bit)	80	D#05	In/Out	Shuffle memory data (8 bit)
31	NC	-	Not used	81	NC	-	Not used
32	DOI3	In/Out	Shuffle memory data (8 bit)	82	DIO6	In/Out	Shuffle memory data (8 bit)
33	DOI2	In/Out		83	DIO7	in/Out	
34	NC	-	Not used	84	NC	-	Not used
	DOI1		Shuffle memory data (8 bit)	85	DIO6	In/Out	Shuffle memory data (8 bit)
36	VCC2	•	Power supply (+3 V)	86	VCC2	-	Power supply (+3 V)
37	VCC2			87	ACCS	-	
38	NC		Not used	88	NC	-	Not used
39	GND	-	Ground	89	GND	-	Ground
40	GND	-		90	GND	-	
41	DIO4	_	Shuffle memory data (6 bit)	91	DOI5	_	Shuffle memory data (8 bit)
42	NC	-	Not used	92	NC	-	Not used
43	DIO3	In/Out	Shuffle memory data (6 bit)	93	DOI6	in/Out	Shuffle memory data (8 bit)
	DIO2	in/Out		94	DOI7	In/Out	
	NC		Not used	95	NC	-	Not used
	DIÓ1		Shuffle memory data (8 bit)	96	DOI8	In/Out	Shuffle memory data (8 bit)
	TDO	-		97	A0	In	Shuffle memory address (18 MHz, 18 bit)
48	TRS		•	98	A1	in	•
	NC		Not used	99	NC	-	Not used
50	NC	-	Not used	100	NC	-	Not used

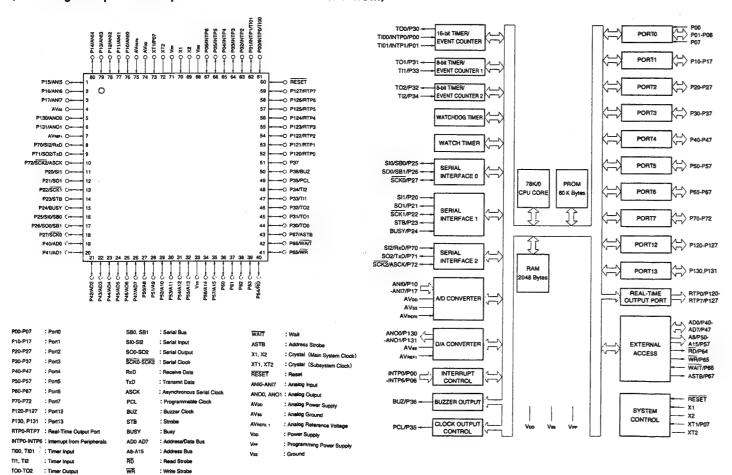
■ UPD42S4260ALG5 [NEC] (3.3V 4M Bit Dynamic RAM)



UPD71055GB-10 [NEC] (Parallel Input/Output Port)



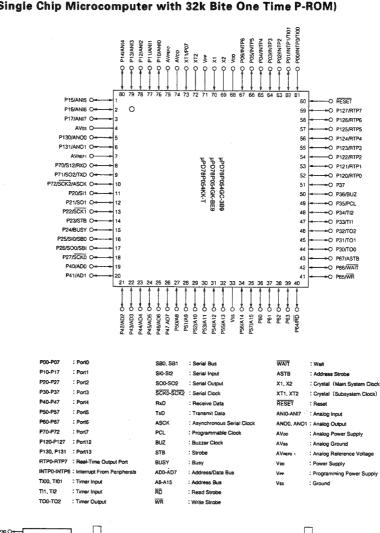
■ UPD78P58YGC-3B9 [NEC] (8 Bit Single Chip Microcomputer with 60k Bite One Time P-ROM)

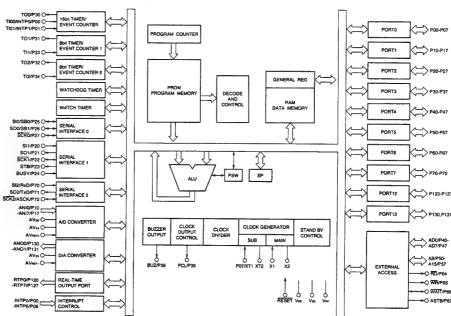


4-70

4-70

■ UPD78P054GC-3B9 [NEC] [8 Bit Single Chip Microcomputer with 32k Bite One Time P-ROM)





SECTION 5 EXPLODED VIEW AND ASSEMBLY LIST

SAFETY PRECATION

Parts identified by the ${\Delta}$ symbol are critical for safety. Replace only with specified parts numbers.

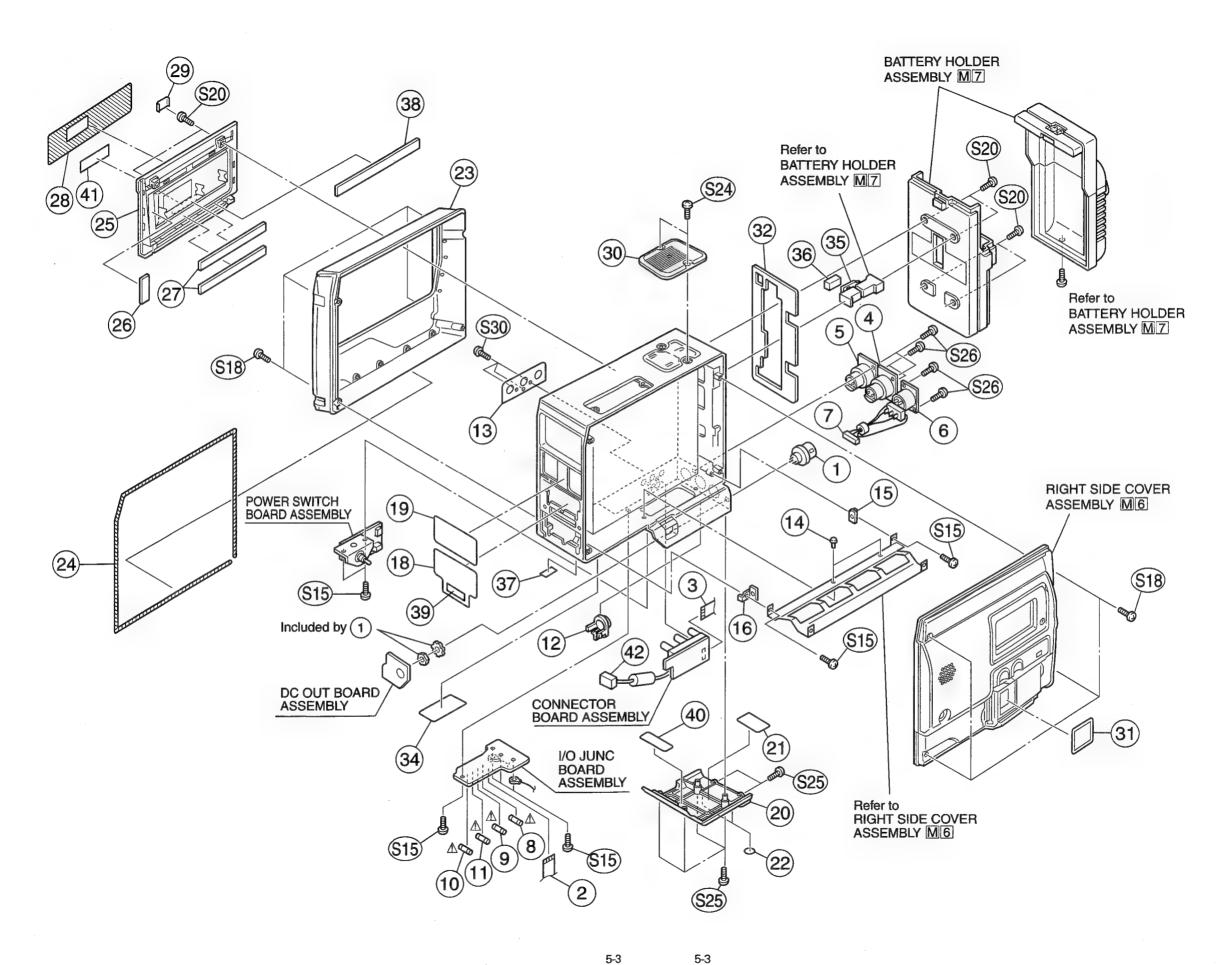
● NOTE

Parts not denoted by parts numbers are not supplied by JVC.

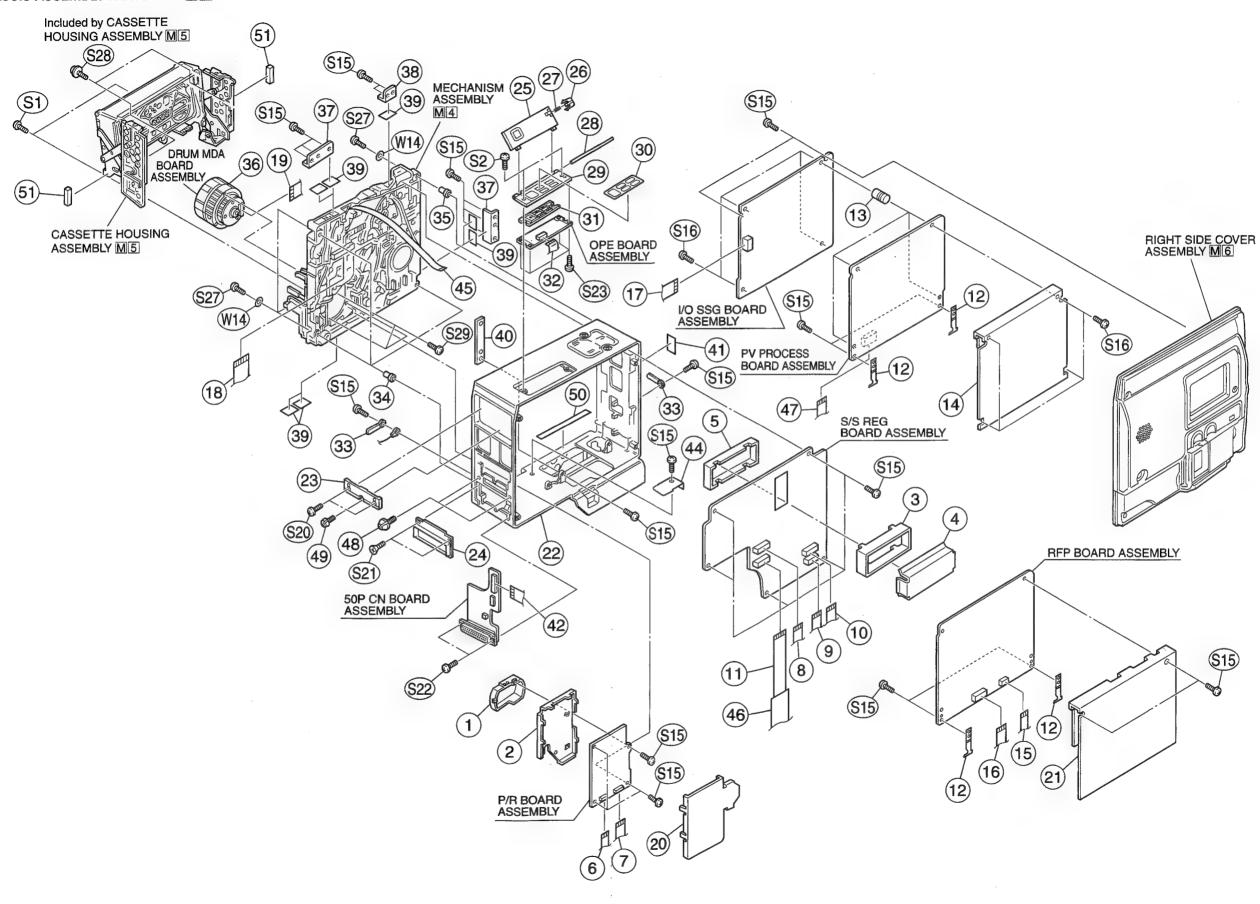
5.1 CABINET ASSEMBLY PARTS LIST M2

M	2	M	M	\Box	П	\Box	
1141	-	12 A 1	SAS		4 1	1 t	1 1

Symbol No.	Part No.	Part Name	Description
1	SCV1836-S04	CONNECTOR	
- 1	PGW0203-280100	FFC	AU7-IO/J5
1	PGW0204-260080	FFC	AU5-CNT1
	PGZ01953	XLR CONNECTOR	
	PGZ01953	XLR CONNECTOR	
	PGZ02527	DC IN CONN(4P)	
7	MLSL076A	DC IN WIRE	
k á	QMF51U1-4R0	FUSE	(U) 4 A, 125 V F301
<u>~</u>	QMF51A2-4R0	FUSE	(E) 4 A, 250 V F301
	QMF51U1-2R5	FUSE	(U) 2.5 A, 125 V F302
<u>A</u>	QMF51A2-2R5	FUSE	(E) 2.5 A, 250 V F302
. !		FUSE	(U) 2.0 A, 125 V F303
Δ	QMF51A2-2R0	FUSE	(E) 2.0 A, 250 V F303
			(U) 400 mA, 125 V F304
<u>↑</u> 11	QMF51U1-R40	FUSE	
	QMF51A2-R40	FUSE	(E) 400 mA, 250 V F304
	PRD44883	LENS	
	PRD44879-01-02	PLATE (CONN)	
	PU53276	PLASTIC RIVET	
	PRD44896	STAY(1)	
	PRD44897	STAY(2)	
	PRD44899	PLATE(2)	
19	PRD44898	PLATE(1)	
20	PRD10357-01-04	BOTTOM COVER	
21	PRD44994	CAUTION LABEL 1	(U)
	PRD44994-02	CAUTION LABEL 1	(E)
22	PRD30090	FOOT	
23	PRD10353	SIDE COVER(L)	
24	PRD44992	SHIELD TUBE	
25	PRD10356-01-02	CASSETTE PANEL	
26	PRD30030-156	PAD	
27	PRD30030-157	PAD	
28	PRD30896-09	WINDOW	(E)
	PRD30896-07	WINDOW	(U)
29	PRD44259	CAP	
30	PRD31276-01-02	COVER (TOP)	
31	PRD44880	PLATE(DOOR)	
32	PRD44882	PAD(REAR)	
34	-	RATING LABEL	
	MLSL051A-5	BATTERY CABLE 1	
	MLSL051A-4	BATTERY CABLE 2	
	PRD43307-02	STICKER	
	PRD45091	SHEET	
	PU49729-2	LABEL 1	(U)
	PU58760	CAUTION LABEL 2	(U)
		LABEL 2	(0)
41 PRD45092-02 42 MLSL051A-1		WIRE ASSEMBLY	With Ferrite core
		SCREW	M2.6x5
	SDSP2605Z	SCREW	1912.000
	SC43397-010		M3x8
	SDSP3008M	SCREW	
	SDSP4006M	SCREW	M4x6
	SDSP2608M	SCREW	M2.6x8
	SPSP2606N	SCREW	M2.6x6
S30	SDSF3008M	SCREW	M3x8



5.2 CHASSIS ASSEMBLY PARTS LIST M3



5-4

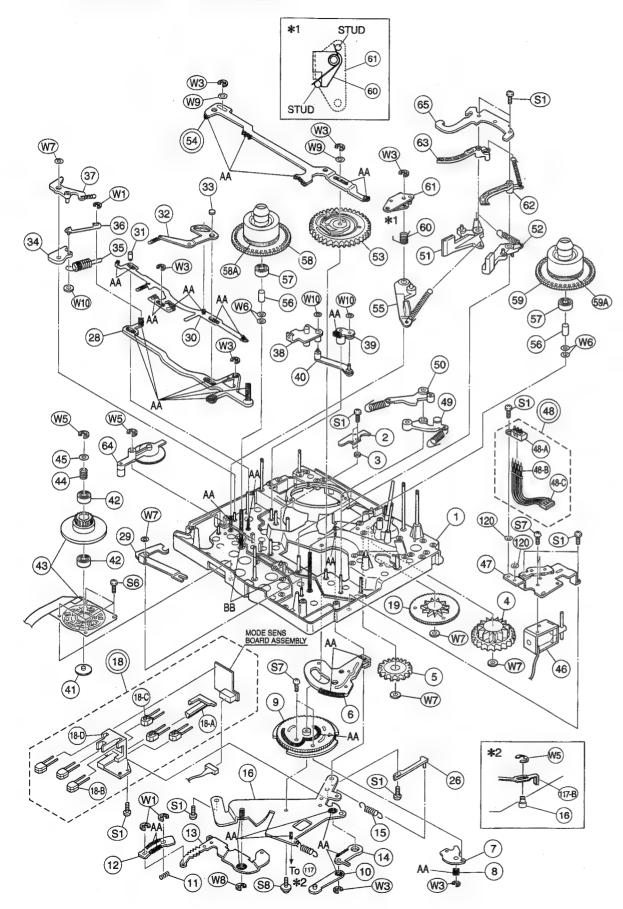
5-4

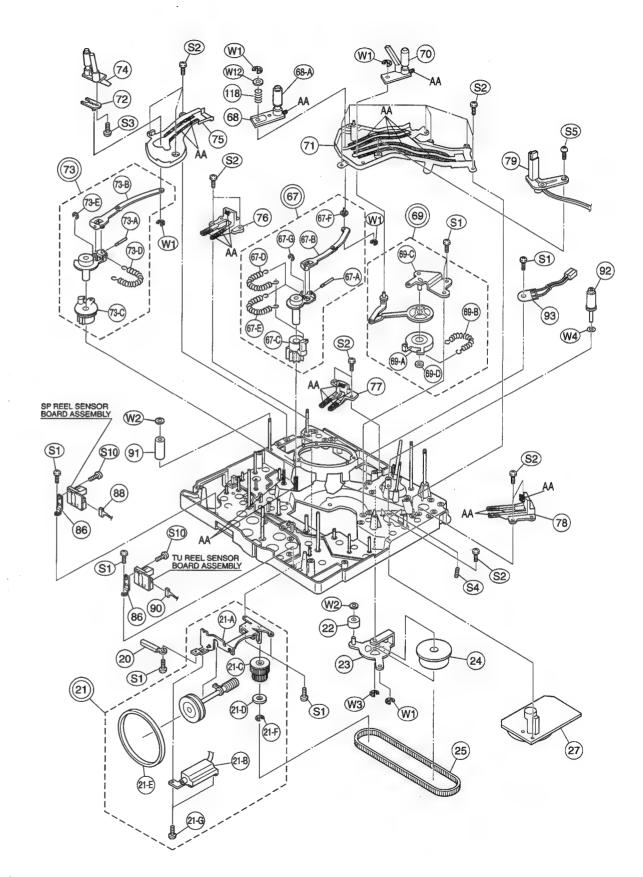
M3MM

Symbol No.	Part No.	Part Name	Description
1	PRD31279	DRUM SHIELD	
2	PRD31280	P/R SHIELD(A)	
3	PRD44902	SHIELD CASE	
4	PRD44903	SHIELD COVER	
5	PRD44904-01-01	SHIELD PLATE	
6	PGW0204-070110	FFC	RF101-P/R1
7	QUQ0208-2810CE	FFC	P/R6-PV6
8	PGW0206-160220	FFC	PV10-S/S4
9	PGW0206-120240	FFC	PV2-S/S11
	QUQ0208-3007CE	FFC	RF604-S/S12
11	QUQ0208-3024CE	FFC	AU8-S/S13
12		BOARD HOLDER	
	PRD42566-03	DODGE BET	
14		SHIELD PLATE(2)	
	PGW0204-100080	FFC	RF603-I/SSG3
	PGW0204-100220	FFC	RF501-PV4
17		FFC	I/SSG-PV1
18		FFC	M. IF-S/S1
	PGW0206-050170	FFC	P/R2-DRUM
		P/R SHIELD(B)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
21	PRD31235	SHIELD PLATE(1)	
22	PRD10352-01-02	MAIN FRAME	
23	SC30988-003	CAMERA GUIDE	
24	PRD31273-01-02	COVER(50PIN)	
25		DOOR(OPE)	
26		KNOB(DOOR)	
27	PRD30023-53	COMPRESS SPRING	
28	ì	SHAFT	
29	PRD31228-01-02	HOLDER	
	PRD44890-01-01	PLATE(OPE)	1
31	PRD31233	KNOB(OPE)	
32	PGW0203-140100	FFC	OPE-S/S3
	PU49485-3	WIRE CLAMP	3. 2 3/33
	PRD44884	COLLAR(1)	
	PRD44885-01-02	COLLAR(2)	
	PDR2012A	DRUM ASSEMBLY	
37		BRACKET(1)	
	PRD44983-01-02 PRD44984-01-02	BRACKET(2)	
		PAD PAD	
	PRD30030-159	STAY(BOARD)	
	PRD44901	LABEL	
	PRD44925 PGW0206-170200	FFC	RF605-50P201
	PRD45083	WIRE CLAMP	111 000-001 201
	PGW0206-120100	FFC	DRUM MDA-S/S9
	PRD45040	INSULATOR	DITOWN WIDTH 0/00
	PGW0204-060150	FFC	AU4-PV12
		STUD(A)	1041 VIZ
	PRD44894	STUD(B)	
	PRD44895	PAD	
	PRD30030-163	PAD	
	PRD30030-162	SCREW	M2x4
	SDSP2004Z	SCREW	M2x6
	SDSP2006M		M2.6x5
	SDSP2605Z	SCREW	M3x4
	SDSP3004Z	SCREW	M3x8
520	SDSP3008M	SCREW	IAIOVO

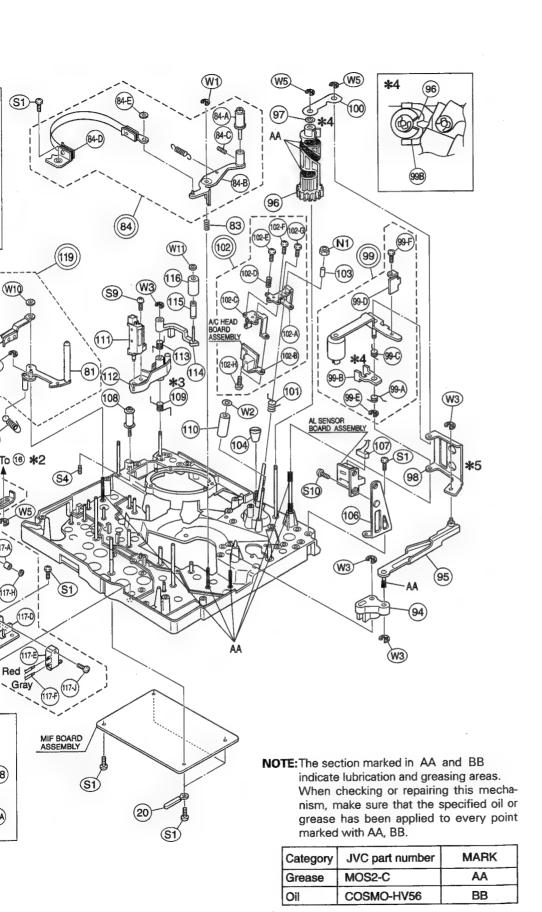
Symbol No.	Part No.	Part Name	Description
S21	SSSP2004M	SCREW	M2x4
S22	LPSP2006Z	SCREW	M2x6
S23	SDSF2004Z	SCREW	M2x4
S27	SDSP2612Z	SCREW	M2.6x12
S28	DPSP2005Z	SCREW	M2x5 Included by CASSETTE HOUSING ASSEMBLY
S29	SDSP2606Z	SCREW	M2.6x6
W14	PRD30029-10	WASHER	

5.3 MECHANISM ASSEMBLY PARTS LIST M4





5-6



Symbol No.	Part No.	Part Name	Description
	PGS30280A	MECHANISM ASSEMBLY	
1	-	MAIN DECK	
2	PRD44995	A.G.PLATE	
3	PRD44141 PRD44573	SPACER P.I.GEAR	
5	PRD44574	C.I.GEAR	
6	PRD44578A	A.GEAR(R) ASSEMBLY	
7	PRD44862A	PIN PLATE ASSEMBLY	!
	PRD44865	ROLLER	
	PRD20538	CONTROL CAM	
	PRD44713A PRD30023-56	S.ROD ASSEMBLY COMPRESS.SPRING 56	
11	PRD30023-56 PRD31117-01-02	SLIDE GEAR	
	PRD44582A-02	A.GEAR(L) ASSEMBLY	
	PRD44796A-01	P.C.ARM ASSEMBLY	
	PRD44838	TENSION SPRING 838	
	PRD44958A	CAM BKT.ASSEMBLY	
	PGS30258A	M.SENSOR ASSEMBLY MODE SENSOR(2)	
	PRD31207 TLN117	PHOTO LED	
	TPS622	PH.TRANSISTOR	
18D	PRD20539	MODE SENSOR(1)	
19		CONNECT GEAR	
	PU49485-3	WIRE CLAMP	
X 21	PGZ02533	L.MOTOR ASSEMBLY	
	PRD44560A-01 JV-1850	GEAR BKT. ASSEMBLY LOADING MOTOR	
	PRD44566	WORM WHEEL	
	PQM30018-54	SPACER	
21E	PRD30022-21	BELT	
	REE2000	E.WASHER	
	LPSP2003Z	SCREW	M2x3
	PRD44571	BAND ROLLER	
23	PRD44568A PRD44567	B.R.ARM ASSEMBLY TIMING GEAR	
X 25		TIMING BELT	
26		ADJ.LEVER ASSEMBLY	
× 27	PGZ02191	CAPSTAN MOTOR	
	PRD44597A-01	S.PLATE ASSEMBLY	
29	PRD31124	SOLENOID LEVER	
	PRD44955A-01	BRAKE PLATE COLLAR 1	
31	PRD44832 PRD44956A	B.ANGLE ASSEMBLY	
33		COLLAR 2	
	PRD44616	S.ADD LEVER	
35	PRD44847-01-01	TENSION SPRING 847	
36	PRD44815A-01	T.ROD ASSEMBLY	
	PRD44961A	S.B.LEVER ASSEMBLY	
	PRD44618A-01 PRD31128	SUB ARM SA GENEVA GEAR	
	PRD44627A	PUSH ARM ASSEMBLY	
	PRD44764	COLLAR	
42	PRD30021-14	BALL BEARING	
43	PGZ02192	REEL MOTOR	
	PRD30023-57	COMPRESS.SPRING 57	
	Q03093-831	WASHER	
	PGZ02194 PRD31125	SOLENOID SOLENOID BKT.	
	PGS30299A	W SENSOR ASSEMBLY	
	PGZ02453	W SENSOR	
	QXTE154-010	TUBE	
	MLSL066A	CAS.SW WIRE	
	PRD44959A	T.S.L.SP.ASSEMBLY	
	PRD44953A	T.B.LEVER ASSEMBLY	
<u>51</u>	PRD45006A	L.C.L.F.ASSEMBLY	

M 4 M M

5-7

Symbol No.	Part No.	Part Name	Description
NO. 52	PRD45007A	R.C.L.F.ASSEMBLY	· · · · · · · · · · · · · · · · · · ·
53	PRD20540	2ND CAM	
54	PRD44614A-01	DIR.PLATE ASSEMBLY	
55		SUB BRAKE ASSEMBLY	
<u>56</u> 57	PRD44786 PRD30021-13	BALL BEARING	
58	PRD44518A	REEL DISK ASSEMBLY	
58A	PRD44711	RUBBER TIRE	
59	PRD44518B	REEL DISK ASSEMBLY	
59A	PRD44711 PRD44834	RUBBER TIRE TORSION SPRING	· · · · · · · · · · · · · · · · · · ·
60 61	PRD44834 PRD44635A	B.H.BKT. ASSEMBLY	
62	PRD44954A-01	T.B.A.SP.ASSEMBLY	
63	PRD31131A-02	S.B.ARM ASSEMBLY	
64		IDLER ASSEMBLY	
65	PRD31133-01-01	ARM GUIDE	
火 67 67A	PGS30251A PRD44537	L.ARM(R) ASSEMBLY L.ARM SHAFT	
67B	PRD44545A	ARM(R) ASSEMBLY	
67C	PRD31109	L.GEAR(R)	
	PRD44542-02	TENSION SPRING 422	
67E		TENSION SPRING 423	
67F 67G		BOTTOM STUD E.WASHER	
X 68	PRD31173B - 04	POLE BASE ASSEMBLY	
68A		GUIDE ROLLER	
69	PGS30252A	ARM(D) ASSEMBLY	
69A		LOADING GEAR(D) TENSION SPRING 74	
69B 69C	PRD30024-74 PRD44471A-01	ARM(D) BRACKET	
69D	PQM30017-5	WASHER	
70	PRD31174A	POLE BASE ASSEMBLY	
71	PRD10342-01-01	GUIDE RAIL(T)	
72	PRD44477A	BASE ASSEMBLY	
X 73 73A	PGS30250A PRD44537	L.ARM(L) ASSEMBLY L.ARM SHAFT	
73B	PRD44538A	ARM(L) ASSEMBLY	
73C	PRD31108A	L.GEAR(L) ASSEMBLY	
73D	PRD44542	TENSION SPRING 420	
73E		E.WASHER	
74 75	PRD31172A-02 PRD10341-01-01	POLE BASE ASSEMBLY GUIDE RAIL(S)	
76 76	PRD31093	CATCHER(S)	
	PRD31094	CATCHER(T)	
78	PRD31095	CATCHER(D)	
X 79		CASS.LED ASSEMBLY	·
81 × 82	PRD45022A-01 PRD44722A-01	S.T.ARM ASSEMBLY TENSION BAND(S)	
83	PRD30023-59	COMP. SPRING 59	
× 84		T.T.ARM ASSEMBLY	
	PRD43631A	GUIDE R.ASSEMBLY	
84B		T.T.ARM ASSEMBLY	Marke
84C × 84D	YFS2605B PRD44726A	SCREW TENSION BAND(T)	M2.6x5
84E		SLIT WASHER	
86	PRD44521	R.SENSOR.BKT.	
91	PRD44505	GUIDE ROLLER	
92 93		GUIDE ROLLER DEW SENSOR	
	PRD44600	JOINT ARM	
95		PINCH ROD ASSEMBLY	
96		CAM GEAR	
97	Q03093-826	WASHER	
98 99	PRD31221-01-01 PGS30255A	P.LOCK LEVER P.ROLLER ASSEMBLY	
33	1 USSUZSSA	T. HOLLETT AGGLIANDE	

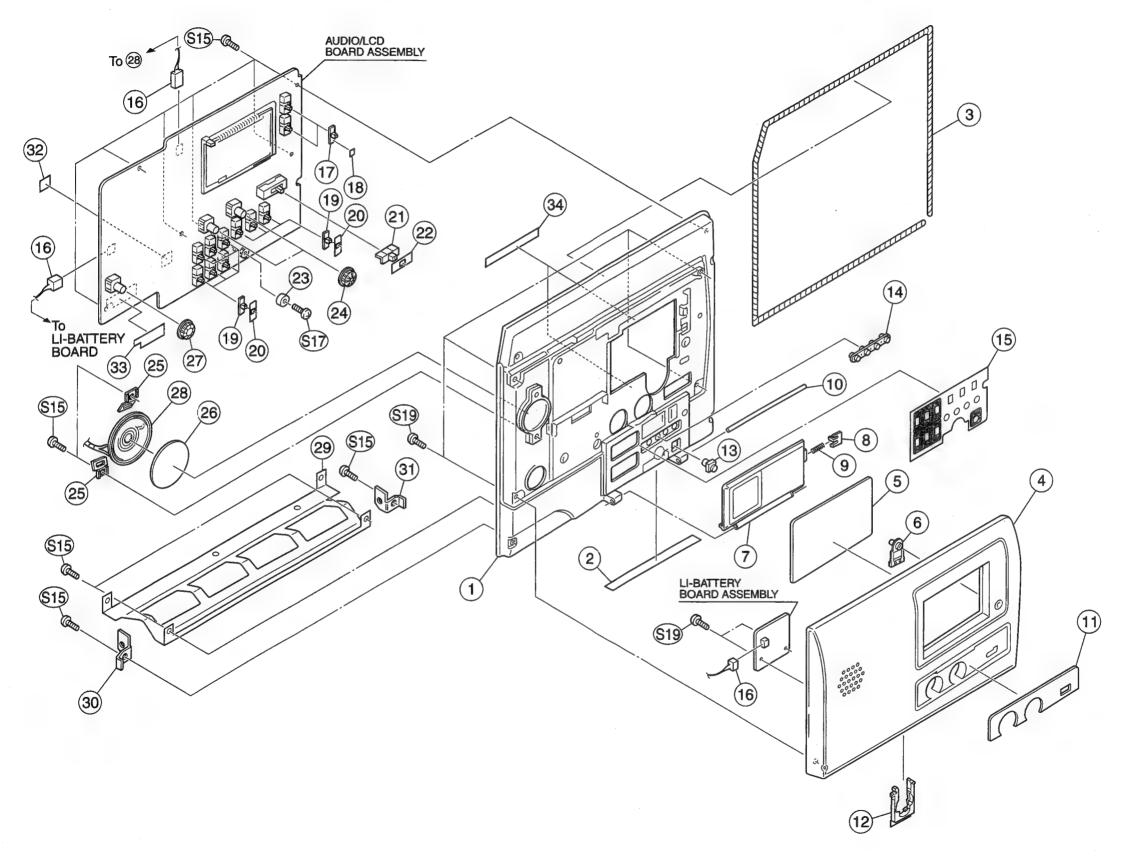
Symbol No.	Part No.	Part Name	Description
99A	PRD45001	TORSION SPRING 451	
99B	PRD31148	ARM LIFTER	
99C	PRD45000	TORSION SPRING 450	
	PRD44744-01-01	SENSOR PLATE	·
99E	REE4000	E.WASHER	
99F	SDSP2004Z	SCREW	M2x4
	PRD44729	PLATE	
101		TORSION SPRING 501	
102		A/C HEAD ASSEMBLY	
	PRD31101	A/C HEAD ARM	
	PGZ02190	A/C HEAD	
	PRD44502A-02	HEAD BASE ASSEMBLY	
102D		COMPRESS.SPRING 197	140.0.40
	SDSP2612Z	SCREW	M2.6x12
_	PQ43687B	SCREW	M2.6x8
	PQ44621	SCREW .	M2.6x8
102H		SCREW	M2.6x4
	PRD30026-38	COLLAR	
	PRD44241	TAPER NUT	
	PRD31156	SENSOR BRACKET	
	PRD44926A	G.ROLLER ASSEMBLY	
	PRD44498-01-01	TORSION SPRING 498	
	PRD44505 PRD44399A	GUIDE ROLLER FULL ERASE HEAD	
1	PRD31099A-01		
		E.HEAD ARM ASSEMBLY	
	PRD44790-01-01 PRD44499A	TORSION SPRING 790	
	YQ42418	H.C.ARM ASSEMBLY ROLLER	
	YQ42419-2	CLEANER	
	PGS30254A	LOCK UNIT ASSEMBLY	
	PRD44590	ROLLER	
	PRD44586-01-01	EJECT ROD	
	PRD44591A-02	L.LEVER ASSEMBLY	
	PRD44594A	L.BKT. ASSEMBLY	
	PGZ00503	INSERT SWITCH	
	MLSL044A-01	CAS.LOCK WIRE	
	PRD45005A	NOSE F.ASSEMBLY	
	PQM30017-25	SLIT WASHER	
	SDSP2006M	SCREW	M2x6
	PRD30024-42	COMPRESSION SPRING 42	THE ASS
	PGS30256A	TENSION ARM ASSEMBLY(S)	
	PRD44141	SPACER	'
N1	PQ40353	NUT	
	SDSP2004Z	SCREW	M2x4
	SDSP2006M	SCREW	M2x6
	SPSH1740M	SCREW	M1.7x4
	YFS2603B	SCREW	M2.6x3
S5	SBSF2606Z	SCREW	M2.6x6
	SPSP2004Z	SCREW	M2x4
	LPSP2003Z	SCREW	M2x3
S8	DPSP2006Z	SCREW	M2x6
S9	SBSF2610Z	SCREW	M2.6x10
S10	LPSP3006Z	SCREW	M3x6
	REE1500	E.WASHER	
	PQM30017-25	SLIT WASHER	
	REE2000	E.WASHER	
	PRD43925	RING	
	REE2500	E.WASHER	
	PQM30018-33	WASHER	
	PQM30017-22	SLIT WASHER	
W8	REE4000	E.WASHER	
W9	Q03093-827	WASHER	
	PQM30017	SLIT WASHER	
VV11	YQM30017-8	SLIT WASHER	
18446	Q03093-838	I WASHER	

M	5	M	M		\Box	Г

END SENSOR BOARD ASSEMBLY (513)	
STA WID	-
5 5 628	
(1) (3) (11) (16) (16) (16) (17) (16) (17) (17) (18) (17) (17) (18) (17) (18) (18) (18) (18) (18) (18) (18) (18	
(S)	
(18) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	(S13
(a) (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	EGIN SEI DARD AS
13	

Symbol No.	Part No.	Part Name	Description
	PGS30329A-04	CASS.HOUSING ASSEMBLY	
1	PRD44690A	BKT.(L) ASSEMBLY	
2	PRD44695A	BKT.(R) ASSEMBLY	
3	PRD44694	CASSETTE GUIDE	
4	PRD44704	SENSOR BRACKET	
5	PU56781	DUMPER	
6	PQ42384-1-3	LID GUIDE	
7	PRD31135A-01	C.HOUSING SUB ASSEMBLY	
8	PRD31274	TOP PLATE	
Χ9	PRD31138	DOOR	
10	PRD44696	DAMPER GEAR	
11	PRD44697	HOLD LEVER(L)	·
12	PRD44698	HOLD LEVER(R)	
13	PRD31139A	L.LEVER ASSEMBLY	
14	PRD44986A	S.PLATE ASSEMBLY	
15	PRD44699-01-02	TORSION SPRING 699	
16	PRD30024-70-12	TENSION SPRING 70	
17	PRD44702	TORSION SPRING 702	
18	PRD30024-71	TENSION SPRING 71	
19	Q03093-817	WASHER	
20	PRD30024-72	TENSION SPRING 72	
21	PRD30024-95	TENSION SPRING 95	
S1	SDSP2004Z	SCREW	M2x4
S11	DPSP2004Z	SCREW	M2x4
S12	SSSP2004M	SCREW	M2x4
S13		SCREW	M2x8
S14		SCREW	M2x6
S15		SCREW	M2x5
W1		E.WASHER	
W13	REE3000	E.WASHER	
W15	Q03093-829	SPACER	

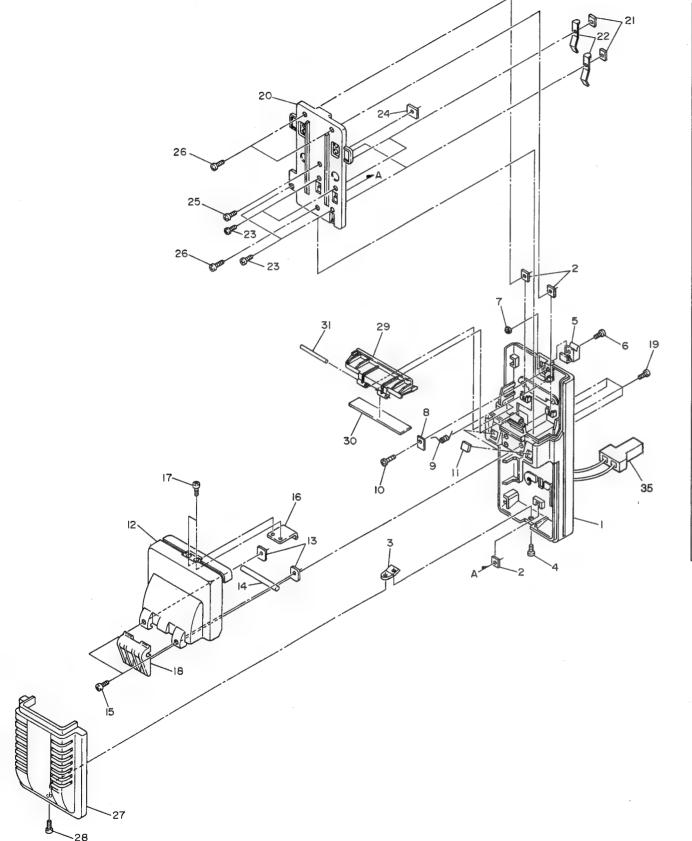
5.5 RIGHT SIDE COVER ASSEMBLY PARTS LIST M 6



M6MM

Symbol No.	Part No.	Part Name	Description
1	PRD10354-01-02	SIDE COVER	
2	PRD30030-155	PAD	
3	PRD44992	SHIELD TUBE	
4	PRD10355-01-03	CHEEK PAD	
5	PRD44877	PLATE(LCD)	
	PRD44874	KNOB(RESET)	
7	PRD31230-01-03	DOOR(A)	
8	PRD43840-01-04	KNOB(DOOR)	
	PRD30023-53	COMPRESS SPRING	
	PRD43829-03	SHAFT	
11	PRD44878-01-01	PLATE(AUD)	
12	PRD31245	LI B.HOLDER	
13	PRD44873	KNOB(MENU)	
	SC44557	CAP	
	PRD44881-01-04	PLATE(SW)	
	MLSL047A	R.SIDE WIRE	•
17	PRD43835	KNOB(OPE)	
18	PRD42909-04	ADJUST PLATE	
	PRD44020	KNOB(T/C)	
	PRD43146-02	KNOB PLATE	
	PRD42830	SLIDE KNOB	
22	PRD43146	KNOB PLATE	
23	PRD44875-01-02	VOL KNOB(1)	
24	PRD44876-01-02	VOL KNOB(2)	
25	SC44537-001	SP BRACKET	
26	PRD30030-105	PAD	
27	PRD43839-01-03	KNOB(VR)	
28	PGZ01282	SPEAKER	
29	PRD31234	HINGE	
30	PRD44896	STAY(1)	
31	PRD44897	STAY(2)	
32	PRD30030-55	PAD	·
33	PRD45046	SHEET	
34	PRD30030-161	PAD	
S15	SDSP2605Z	SCREW	M2.6x5
	SPSH1450Z	SCREW	M1.4x50
S19	SDSF2605Z	SCREW	M2.6x5
İ			

5.6 BATTERY HOLDER ASSEMBLY PARTS LIST M 7



	Part No.	Part Name	Description
	PGS20993A	BATTERY HOLDER	
1	SC10156-001	B.H. BASE	
2	PRD30955	PLATE(1)	
3	SC45152-001	NUT PLATE	
4	SDSP3004NY	SCREW	M3x4
5	SC43570-001	LOCK KNOB	
6	SDSP2006MY	SCREW	M2x6
7	NNS2000N	NUT	
8	SC43571-001	PLATE	
9	PRD44060	SPRING	
10	SDSF2005MY	SCREW	M2x5
11	SC45155-001	CUSHION	
12	SC20476-002	COVER(1)	
13	PRD30955-02	PLATE(2)	
14	PRD44062	SHAFT	
15	SSSP2606MY	SCREW	M2.6x6
16	PRD30955-05	PLATE(5)	
17	SPSK2650M	SCREW	M2.6x5.0
18	SC31501-002	HOLDER	
19	SDSP2605MY	SCREW	M2.6x5
20	SC20478-004	TERMINAL COVER	
21	PRD30955-03	PLATE(3)	
22	SC45150-001	PLATE	
23	SSSK2040M	SCREW	M2x4.0
24	PRD30955-04	PLATE(4)	
25	SSSK2040M	SCREW	M2x4.0
26	SSSP3005MY	SCREW	M3x5
27	SC20477-002	COVER(2)	
28	SDSP3005M	SCREW	M3x5
29	SC31319-011	GUIDE	
30	SC44869-006	SPRING	
31	PRD44066	SHAFT	
35	ML-G01115A-01	WIRE KIT	

SECTION 6 ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the A symbol are critical for safety. Replace only with specified parts numbers. For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (W). K expresses kilo-ohm (1 000 ohms, kW). M expresses mega-ohm (106 ohms, MW).

In the "Parts Name" column:

COMP. RESISTOR: Composition Resistor

U.F. RESISTOR : Non-inflammable Resistor

O.M.F. RESISTOR : Oxide Metalized Film Resistor FUSI. RESISTOR : Fusible Resistor

: Metal Plate Resistor M.P. RESISTOR : Metal Graze Resistor M.G. RESISTOR

: Metal Film Resistor M.F. RESISTOR W.W. RESISTOR

: Wire Wound Resistor

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μ F) unless otherwise indicated.

P expresses picofarad (10-12 farad,pF).

In the "Parts Name" column:

TRIM. CAPACITOR: Trimmer Capacitor CER. CAPACITOR : Ceramic Capacitor Electrolytic Capacitor E. CAPACITOR

TAN, CAPACITOR: Tantalum Capacitor MPP CAPACITOR : Metalized Polypropylene

Capacitor

O.F. CAPACITOR Oil Film Capacitor

MPF CAPACITOR : Metalized Polyfilm Capacitor

Film Mica Capacitor F.M. CAPACITOR Polypropylene Capacitor P.P. CAPACITOR Polystyrene Capacitor P.S. CAPACITOR M.F. CAPACITOR : Metalized Film Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description	n	
IC1	SCV1585-064	I.C.(M)	JAC	(U)	← for U version
	SCV1585-067	I.C.(M)	JAC	(E)	← for E version

6.1 AUDIO & LCD BOARD ASSEMBLY PARTS LIST 0 1 SLK1042-A1A(for U. Ver.)/SLK1042-B0A(for E. Ver.) 0 1

Symbol No.	Part No.	Part Name	Description	
IC1 IC2 IC3 IC4 IC5 IC6 IC7	M5218AFP-X M5218AFP-X M5218AFP-X TC4W53F-X TC4W53F-X TC4053BF-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	MITSUBISHI MITSUBISHI MITSUBISHI MITSUBISHI TOSHIBA TOSHIBA TOSHIBA	
IC8 IC9 IC10	TC4S81F-X	1.C.(M) 1.C.(M) 1.C.(M)	TOSHIBA TOSHIBA TOSHIBA	:
IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC21		I.C.(M)	TOSHIBA TOSHIBA MITSUBISHI MITSUBISHI MITSUBISHI ROHM ROHM MITSUBISHI TOSHIBA	
IC22 IC101 IC201 IC202 IC203 IC204 IC205 IC206 IC207 IC208	TC4W53F-X M5218AFP-X M5218AFP-X M5218AFP-X AK5340-VS AN77L05M-X PCM1710U/G/-X AN77L05M-X TC74HCT541AF-X TC4094BF-X	I.C.(M)	TOSHIBA MITSUBISHI MITSUBISHI MITSUBISHI ASAHIKASEI MATSUSHITA BAR BRAWN MATSUSHITA TOSHIBA TOSHIBA	
IC209 IC210 IC211 IC212 IC220 IC301 IC302 IC401 IC401 IC402	M5201FP-X M5201FP-X M5218AFP-X M5216FP-X TC7S04F-X BA7765AS BA7765AS UPD78P054GC-400 UPD78P054GC-500 NJU6433FB2	I.C.(M)	MITSUBISHI MITSUBISHI MITSUBISHI MITSUBISHI TOSHIBA ROHM ROHM JVC JVC JRC	(U) (E)
IC403 IC404 IC405 IC406 IC407 IC408 IC410 IC411 IC412 IC413	TC7W126FU-X TC4S69F-X TC4S71F-X TC74HC08AF-X TC4S66F-X TC4S81F-X TC4538BF-X MSM6338MS-K TC4W53F-X UPC393G2-X	I.C.(M)	TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA TOSHIBA OKI TOSHIBA NEC	
IC414 IC415 IC418 IC419 IC420 IC422 IC423 IC424 IC425 IC426	UPC393G2-X M5218AFP-X S-8420BF-X S-8054HN-CB-X TC4S69F-X TC7W74F-X TC7W74F-X BA10358F-X BA10358F-X TC4W53F-X	I.C.(M)	NEC MITSUBISHI SEIKO SEIKO TOSHIBA TOSHIBA TOSHIBA ROHM ROHM TOSHIBA	!
IC427	TC4VV53F-X	I.C.(M)	TOSHIBA	
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	2SD2240/RST/-X 2SD2240/RST/-X 2SB1463/RST/-X 2SB1463/RST/-X 2SD2240/RST/-X 2SD2240/RST/-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X DTC124EUA-X	TRANSISTOR	MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MATSUSHITA MOHM ROHM ROHM ROHM	

Symbol	Part No.	Part Name	Description	
No.	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q12	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q13	DTC124EUA-X	TRANSISTOR	ROHM	
Q14	DTC124EUA-X	TRANSISTOR	ROHM	
Q17	DTA124EUA-X	TRANSISTOR	ROHM	
Q18	DTA124EUA-X	TRANSISTOR	ROHM	1
Q19	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q20	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q21	2SD2240/RST/-X	TRANSISTOR	MATSUSHITA	
Q22	2SD2240/RST/-X	TRANSISTOR	MATSUSHITA	
Q101	DTC114TUA-X	TRANSISTOR	ROHM	
Q102	DTC114TUA-X	TRANSISTOR	ROHM	
Q103	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q104	2SC4081/QRS/-X	TRANSISTOR	ROHM	
Q201	DTC124EUA-X	TRANSISTOR	ROHM	
Q202	DTA124EUA-X	TRANSISTOR	ROHM	
0203	DTC124TUA-X	TRANSISTOR	ROHM	
Q204	DTC124EUA-X	TRANSISTOR	IROHM MATSUSHITA	
Q205 Q206	2SB1463/RST/-X FMW3-X	TRANSISTOR TRANSISTOR	ROHM	
Q207 Q209	FMW3-X 2SD601A/QRS/-X	TRANSISTOR TRANSISTOR	ROHM MATSUSHITA	
Q301	2SC2873/Y/-X	TRANSISTOR	TOSHIBA	
0401	DTC124EUA-X	TRANSISTOR	ROHM	
Q402	DTA124EUA-X	TRANSISTOR	ROHM	
Q403	FMG1A-W	TRANSISTOR	ROHM	
Q404	DTC124EUA-X	TRANSISTOR	ROHM	
Q405	DTC124EUA-X	TRANSISTOR	ROHM	
Q406	FMC2A-X	TRANSISTOR	ROHM	
Q407	FMC2A-X	TRANSISTOR	ROHM	
Q410	DTC124EUA-X	TRANSISTOR	ROHM	
Q411	2SA1577/QR/-X	TRANSISTOR	ROHM	
Q412	2SA1577/QR/-X	TRANSISTOR	ROHM	
Q413	DTA124EUA-X	TRANSISTOR	ROHM	
Q414	DTA124EUA-X	TRANSISTOR	ROHM	
Q415	FMC2A-X	TRANSISTOR	ROHM	
	ļ			
D1	DA204U-X	DIODE	ROHM	
D2	DA204U-X	DIODE	ROHM	
D3	DA204U-X	DIODE	ROHM	
D4	DA204U-X	DIODE	ROHM	i
D9	DA204U-X	DIODE	ROHM	
D10	DA204U-X	DIODE	ROHM ROHM	
D11	1SS133K 1SS133K	DIODE	ROHM	
D12 D13	DAP202U-X	DIODE	ROHM	
D101	DAN202U-X	DIODE	ROHM	
D201	DAN202U-X	DIODE	ROHM	
D201	DA204U-X	DIODE	ROHM	
D401	DA204U-X	DIODE	ROHM	i
D402	DAN202U-X	DIODE	ROHM	
D404	DAN202U-X	DIODE	ROHM	
D405	TLSG208	L.E.D.		
D406	PGZ02384	BACK LIGHT ASSEMBLY		
R1	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10\	
R2	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10\	
R3	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10\	
R4	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10	
R5	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10\	
R6	NRSA02J-222X	M.G.RESISTOR	2.2k 1/10\ 2.2k 1/10\	
R7	NRSA02J-222X	M.G.RESISTOR M.G.RESISTOR	2.2k 1/10\ 2.2k 1/10\	
R8	NRSA02J-222X	M.G.RESISTOR	1.8k 1/10	
R9 R10	NRSA02J-182X NRSA02J-182X	M.G.RESISTOR	1.8k 1/10\	
D11	NRSA02J-182X	M.G.RESISTOR	1.8k 1/10\	,,
R11 R12	NRSA02J-182X	M.G.RESISTOR	1.8k 1/10\	
R13	NRSA02J-331X	M.G.RESISTOR	330 1/10	
R14	NRSA02J-331X	M.G.RESISTOR	330 1/10	
R15	NRSA02J-331X	M.G.RESISTOR	330 1/10\	
R16	NRSA02J-331X	M.G.RESISTOR	330 1/10\	
R17	NRSA63J-273X	M.G.RESISTOR	27k 1/16\	
R18	NRSA63J-273X	M.G.RESISTOR	27k 1/16\	^/

Symbol No.	Part No.	Part Name	Descri	ption
R19	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
		M.G.RESISTOR	270k	1/16W
R20	NRSA63J-274X		270k	1/16W
R21	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R22	NRSA63J-274X	M.G.RESISTOR	1	
R23	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R24	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R25	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R26	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R27	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R28	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
		M.G.RESISTOR	3.3k	1/16W
R29	NRSA63J-332X		3.3k	1/16W
R30	NRSA63J-332X	M.G.RESISTOR	3.36	
R31	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R32	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R33	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R34	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R35	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R36			2.2k	1/16W
R37	NRSA63J-222X	M.G.RESISTOR		
R38	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R39	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R40	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R41	NRSA63J-680X	M.G.RESISTOR	68	1/16W
R42	NRSA63J-680X	M.G.RESISTOR	68	1/16W
R43	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R44	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R45			3.3k	1/16W
R46	NRSA63J-332X	M.G.RESISTOR	1.	
R47	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R48	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R49	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R50	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R51	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R52	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R53			15k	1/16W
R54	NRSA63J-153X	M.G.RESISTOR	1	
R55	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R56	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R57	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R58	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R59	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
		M.G.RESISTOR	10k	1/16W
R60	NRSA63J-103X	W.G.NESISTON	100	1,1011
R61	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R62	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R63	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
		M.G.RESISTOR	4.7k	1/16W
R64	NRSA63J-472X		100k	1/16W
R65	NRSA63J-104X	M.G.RESISTOR		•
R66	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R67	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R68	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R69	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R70	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
D 7 4	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R71		M.G.RESISTOR	2.7k	1/16W
R72	NRSA63J-272X			
R73	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R74	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R75	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R76	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R77	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R78	i e	M.G.RESISTOR	10k	1/16W
R79 R80	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R81	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R82	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R83	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R84	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
		M.G.RESISTOR	1k	1/16W
R85	NRSA63J-102X	1		
R86	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R88	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R89	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16VV
R90	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R101	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
0400	NDCACO LATAV	M.G.RESISTOR	150k	1/16W
R102	NRSA63J-154X	IVI.U.NESISTOR	TOUR	1/1044

Symbol No.	Part No.	Part Name	Descripti	on
R103	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R104	NRSA63J-473X	M.G.RESISTOR		1/16W
R105	NRSA63J-183X	M.G.RESISTOR		1/16W
R106	NRSA63J-183X	M.G.RESISTOR		I/16W
R107	NRSA63J-222X	M.G.RESISTOR		1/16W
R108	NRSA63J-222X	M.G.RESISTOR		1/16W 1/16W
R109	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		1/16W
R110 R111	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR		1/16W
R112 R113	NRSA63J-103X NRSA63J-153X	M.G.RESISTOR M.G.RESISTOR		1/16W 1/16W
R114	NRSA63J-153X	M.G.RESISTOR		1/16W
R115	NRSA63J-103X	M.G.RESISTOR		1/16W
R116	NRSA63J-103X	M.G.RESISTOR		1/16W
R117	NRSA63J-103X	M.G.RESISTOR		1/16W
R118	NRSA63J-103X	M.G.RESISTOR		1/16W
R119	NRSA63J-563X	M.G.RESISTOR		1/16W 1/16W
R120 R121	NRSA63J-563X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		1/16W
R122 R123	NRSA63J-103X NRSA63J-112X	M.G.RESISTOR M.G.RESISTOR		1/16W 1/16W
R123	NRSA63J-112X	M.G.RESISTOR		1/16W
R125	NRSA63J-102X	M.G.RESISTOR		1/16W
R126	NRSA63J-102X	M.G.RESISTOR		1/16W
R127	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R128	NRSA63J-103X	M.G.RESISTOR		1/16W
R129	NRSA63J-103X	M.G.RESISTOR	1	1/16W
R130	NRSA63J-103X	M.G.RESISTOR		1/16W
R133	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R134	NRSA63J-154X	M.G.RESISTOR		1/16W
R135	NRSA63J-103X	M.G.RESISTOR		1/16W
R136	NRSA63J-103X	M.G.RESISTOR		1/16W
R137	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		1/16W 1/16W
R138 R139	NRSA63J-184X	M.G.RESISTOR	1	1/16W
R140	NRSA63J-184X	M.G.RESISTOR		1/16W
R141	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R142	NRSA63J-153X	M.G.RESISTOR		1/16W
R143	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
R144	NRSA63J-683X	M.G.RESISTOR		1/16W
R145	NRSA63J-102X	M.G.RESISTOR		1/16W
R146	NRSA63J-102X	M.G.RESISTOR	1	1/16W 1/16W
R147	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR		1/16W
R148 R149	NRSA63J-153X	M.G.RESISTOR		1/16W
R150	NRSA63J-153X	M.G.RESISTOR		1/16W
R151	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R152	NRSA63J-122X	M.G.RESISTOR		1/16W
R153	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R154	NRSA63J-103X	M.G.RESISTOR		1/16W
R155	NRSA63J-473X	M.G.RESISTOR		1/16W
R156	NRSA63J-473X	M.G.RESISTOR		1/16W 1/16W
R171	NRSA63J-823X NRSA63J-823X	M.G.RESISTOR M.G.RESISTOR		1/16VV 1/16W
R172 R173	NRSA63J-823X	M.G.RESISTOR		1/16W
R174	NRSA63J-823X	M.G.RESISTOR		1/16W
R175	NRSA63J-393X	M.G.RESISTOR		1/16W
R176	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R177	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R178	NRSA63J-393X	M.G.RESISTOR		1/16W
R179	NRSA63J-471X	M.G.RESISTOR		1/16W
R180	NRSA63J-471X	M.G.RESISTOR		1/16W 1/16W
R181 R182	NRSA63J-152X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR		1/16W
R182	NRSA63J-103X	M.G.RESISTOR		1/16W
R184	NRSA63J-103X	M.G.RESISTOR		1/16W
R185	NRSA63J-223X	M.G.RESISTOR		1/16W
R186	NRSA63J-223X	M.G.RESISTOR		1/16W
R187	NRSA63J-181X	M.G.RESISTOR	180	1/16W
R188	NRSA63J-181X	M.G.RESISTOR		1/16W
R189	NRSA63J-821X	M.G.RESISTOR		1/16W
R190	NRSA63J-821X	M.G.RESISTOR M.G.RESISTOR		1/16W 1/16W
R191	NRSA63J-392X	IVI.U.NESISTUR	3.31	17 1000

R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	47k 3.6k 3.9k 0 0 47k 47k 47k 3.6k 3.9k 22k 22k 100 100 120k 120k 120k 560 560 3.3k 3.3k 3.3k 3.3k 3.3k 3.3k 1100 1100 1100 1100 1100 1100 1100 11	1/16W
R201 INRSAG3J-100X M. G. RESISTOR 10k 1/16W R289 NRSAG3J-96XX M. G. RESISTOR R202 NRSAG3J-100X M. G. RESISTOR 10k 1/16W R289 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R290 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R290 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R291 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R291 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R291 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R294 NRSAG3J-90X M. G. RESISTOR 10k 1/16W R297	3.6k 3.9k 0 0 47k 47k 3.6k 3.9k 22k 22k 100 100 120k 120k 560 3.3k 3.3k 47k 47k 3.9k 3.9k 3.9k	1/16W
R202 NRSA63J-103X M. G. RESISTOR 10k 1/16W R290 NRSA63J-103X M. G. RESISTOR 10k 1/16W R290 NRSA63J-103X M. G. RESISTOR 10k 1/16W R291 NRSA63J-103X M. G. RESISTOR 10k 1/16W R292 NRSA63J-103X M. G. RESISTOR 10k 1/16W R293 NRSA63J-103X M. G. RESISTOR 10k 1/16W R297 NRSA63J-103X M. G. RESISTOR 10k 1/16W R299 NRSA63J-103X M. G. RESISTOR 330 1/16W R291 NRSA63J-103X M. G. RESISTOR 330 1/16W R292 NRSA63J-103X M. G. RESISTOR 3.9% 1/16W R292 NRSA63J-103X M. G. RESISTOR 4/7 1/16W R293 NRSA63J-103X M. G. RESISTOR 4/7 1/16W R294 NRSA63J-103X M. G. RESISTOR 4/7 1/16W R294 NRSA63J-103X M. G. RESISTOR 4/7 1/16W R294 NRSA63J-103X M. G. RESISTOR 10k 1/16W R294 NRSA63J-103X M. G. R	3.9k 0 0 47k 47k 3.6k 3.9k 22k 22k 100 100 120k 120k 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W
R202 NRSA63-1-103X M.G. RESISTOR 10k	0 0 47k 47k 3.6k 3.9k 22k 22k 100 120k 120k 120k 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1.00	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R206	0 47k 47k 3.6k 3.9k 3.9k 22k 22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1.00	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R206 NRSA63J-103X M. G. RESISTOR 10k 1/16W R294 NRSA63J-103X M. G. RESISTOR R206 NRSA63J-103X M. G. RESISTOR 10k 1/16W R296 NRSA63J-302X M. G. RESISTOR 10k 1/16W R296 NRSA63J-103X M. G. RESISTOR 10k	0 47k 47k 3.6k 3.9k 3.9k 22k 22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1.00	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R206 NRSA83J-103X NRSA83J-103X R207 M.G.RESISTOR NRSA83J-103X N.G.RESISTOR 10k 1/16W 1/16W R296 1/16W R296 NRSA83J-32X N.G.RESISTOR NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R300 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R302 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-32X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTOR M.G.RESISTOR R301 NRSA83J-10X M.G.RESISTO	47k 47k 3.6k 3.9k 3.6k 3.9k 22k 22k 100 100 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1.M 1.D 1.D 1.D 1.D 1.D 1.D 1.D 1.D 1.D 1.D	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R206 NRSA63_1-103X M. G. RESISTOR 10k 1/16W R294 NRSA63_1-16X M. G. RESISTOR 10k 1/16W R295 NRSA63_1-16X M. G. RESISTOR 10k 1/16W R297 NRSA63_1-36X M. G. RESISTOR 10k 1/16W R297 NRSA63_1-36X M. G. RESISTOR 330 1/16W R298 NRSA63_1-36X M. G. RESISTOR 330 1/16W R299 NRSA63_1-36X M. G. RESISTOR 330 1/16W R210 NRSA63_1-36X M. G. RESISTOR 330 1/16W R211 NRSA63_1-36X M. G. RESISTOR 330 1/16W R212 NRSA63_1-33X M. G. RESISTOR 330 1/16W R302 NRSA63_1-22X M. G. RESISTOR R212 NRSA63_1-32X M. G. RESISTOR 3.9% 1/16W R302 NRSA63_1-22X M. G. RESISTOR R214 NRSA63_1-22X M. G. RESISTOR R214 NRSA63_1-22X M. G. RESISTOR R214 NRSA63_1-22X M. G. RESISTOR R216 NRSA63_1-22X M. G. RESISTOR R216 NRSA63_1-22X M. G. RESISTOR R216 NRSA63_1-10X M. G. RESISTOR R216 NRSA63_1-	47k 3.6k 3.9k 22k 22k 100 100 120k 120k 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R207 NRSA63J-102X M. G.RESISTOR 10k 1/16W R296 NRSA63J-392X M. G.RESISTOR R208 NRSA63J-31X M. G.RESISTOR 330 1/16W R298 NRSA63J-392X M. G.RESISTOR R210 NRSA63J-331X M. G.RESISTOR 330 1/16W R298 NRSA63J-392X M. G.RESISTOR R211 NRSA63J-331X M. G.RESISTOR 330 1/16W R301 NRSA63J-392X M. G.RESISTOR R212 NRSA63J-391X M. G.RESISTOR 330 1/16W R301 NRSA63J-392X M. G.RESISTOR R213 NRSA63J-392X M. G.RESISTOR R214 NRSA63J-392X M. G.RESISTOR R214 NRSA63J-392X M. G.RESISTOR R215 NRSA63J-472X M. G.RESISTOR 4.7% 1/16W R303 NRSA63J-101X M. G.RESISTOR R215 NRSA63J-103X M. G.RESISTOR R216 NRSA63J-103X M. G.RESISTOR R217 NRSA63J-103X M. G.RESISTOR R217 NRSA63J-103X M. G.RESISTOR R217 NRSA63J-103X M. G.RESISTOR R218 NRSA63J-103X M. G.RESISTOR R218 NRSA63J-103X M. G.RESISTOR NRGA63J-103X M. G.RESISTOR NRGA63J-	3.6k 3.9k 3.9k 2.2k 2.2k 100 100 120k 120k 560 3.3k 3.3k 4.7k 4.7k 4.7k 3.9k 3.9k 1.M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R207 NRSA63J-103X M. G.RESISTOR 10k 1/16W R296 NRSA63J-392X M. G.RESISTOR R208 NRSA63J-31X M. G.RESISTOR 330 1/16W R298 NRSA63J-392X M. G.RESISTOR R210 NRSA63J-31X M. G.RESISTOR 330 1/16W R298 NRSA63J-392X M. G.RESISTOR R310 NRSA63J-392X M. G.RESISTOR R310 NRSA63J-392X M. G.RESISTOR R310 NRSA63J-392X M. G.RESISTOR R311 NRSA63J-392X M. G.RESISTOR R312 NRSA63J-392X M. G.RESISTOR R313 NRSA63J-392X M. G.RESISTOR R314 NRSA63J-392X M. G.RESISTOR R315 NRSA63J-392X M. G.RESISTOR R316 NRSA63J-12X M. G.RESISTOR R316 NRSA63J-12X M. G.RESISTOR R316 NRSA63J-12X M. G.RESISTOR R316 NRSA63J-12X M. G.RESISTOR R316 NRSA63J-103X M. G.RESISTOR R316 NRSA63J-103X M. G.RESISTOR R317 NRSA63J-103X M. G.RESISTOR R317 NRSA63J-103X M. G.RESISTOR R318 NRSA63J-103X M. G.RESISTOR R318 NRSA63J-103X M. G.RESISTOR R311 NRSA63J-103X M. G.RESISTOR NRSA	3.9k 3.6k 3.9k 22k 22k 22k 100 100 120k 120k 560 560 5.3.3k 3.3k 47k 47k 47k 47k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R208 NRSA63J-103X M. G. RESISTOR 10k 1/16W R297 NRSA63J-392X M. G. RESISTOR R210 NRSA63J-331X M. G. RESISTOR 330 1/16W R298 NRSA63J-36X M. G. RESISTOR R211 NRSA63J-31X M. G. RESISTOR 330 1/16W R301 NRSA63J-32X M. G. RESISTOR R212 NRSA63J-31X M. G. RESISTOR 330 1/16W R302 NRSA63J-223X M. G. RESISTOR R212 NRSA63J-31X M. G. RESISTOR 330 1/16W R302 NRSA63J-22X M. G. RESISTOR R213 NRSA63J-22X M. G. RESISTOR R214 NRSA63J-22X M. G. RESISTOR R215 NRSA63J-472X M. G. RESISTOR 4.7% 1/16W R303 NRSA63J-10X M. G. RESISTOR 4.7% 1/16W R304 NRSA63J-10X M. G. RESISTOR R216 NRSA63J-10X M. G. RESISTOR 4.7% 1/16W R305 NRSA63J-10X M. G. RESISTOR R216 NRSA63J-10X M. G. RESISTOR R305 NRSA63J-10X M. G. RESISTOR R305 NRSA63J-10X M. G. RESISTOR R306 NRSA63J-10X M. G. RESISTOR R307 NRSA63J-10X M. G. RESISTOR R307 NRSA63J-10X M. G. RESISTOR R307 NRSA63J-10X M. G. RESISTOR R308 NRSA63J-10X M. G. RESISTOR R308 NRSA63J-10X M. G. RESISTOR R307 NRSA63J-10X M. G. RESISTOR R308 NRSA63J-10X M.	3.6k 3.9k 22k 22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R209	3.6k 3.9k 22k 22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R210	3.9k 22k 22k 100 100 120k 120k 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R211	22k 22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R212 RRSA63.1931X M.G. RESISTOR 330 1/16W R302 NRSA63.1923X M.G. RESISTOR R214 NRSA63.472X M.G. RESISTOR 4.7k 1/16W R303 NRSA63.101X M.G. RESISTOR R215 NRSA63.472X M.G. RESISTOR 22k 1/16W R304 NRSA63.101X M.G. RESISTOR R216 NRSA63.1470X M.G. RESISTOR R216 NRSA63.103X M.G. RESISTOR 10k 1/16W R306 NRSA63.1124X M.G. RESISTOR R221 NRSA63.103X M.G. RESISTOR 10k 1/16W R307 NRSA63.1-124X M.G. RESISTOR R222 NRSA63.103X M.G. RESISTOR 10k 1/16W R307 NRSA63.1-61X M.G. RESISTOR M.G. RESISTOR R222 NRSA63.103X M.G. RESISTOR 10k 1/16W R309 NRSA63.3-932X M.G. RESISTOR 10k 1/16W R310 NRSA63.3-32X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R311 NRSA63.3-332X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R311 NRSA63.3-32X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R312 NRSA63.3-32X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R312 NRSA63.3-32X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R312 NRSA63.3-32X M.G. RESISTOR R226 NRSA63.1-103X M.G. RESISTOR 10k 1/16W R312 NRSA63.3-32X M.G. RESISTOR NRSA63.1-103X M.G. RESISTOR 10k 1/16W R312 NRSA63.3-103X M.G. RESISTOR 10k 1/16W R313 NRSA63.3-103X M.G. RESISTOR 10k 1/16W R314 NRSA63.3-103X M.G. RESISTOR NRSA63.1-103X M.G. RESISTOR NRSA63.3-103X M.G. RESISTOR	22k 100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R213 NRSA63J-92X M.G. RESISTOR 3.9k 1/16W R303 NRSA63J-101X M.G. RESISTOR 4.7k 1/16W R304 NRSA63J-101X M.G. RESISTOR 4.7k 1/16W R304 NRSA63J-101X M.G. RESISTOR M.G. RESISTOR NRSA63J-101X M.G. RESISTOR NRSA63J-103X M.G. RESISTOR NRSA63J-103X M.G. RESISTOR NRSA63J-103X M.G. RESISTOR NRSA63J-103X NRSA63J-103X M.G. RESISTOR NRSA63J-103X M.	100 100 120k 120k 560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R214 NRSA63J-472X M.G. RESISTOR 4.7k 1/16W R303 NRSA63J-101X M.G. RESISTOR R216 NRSA63J-470X M.G. RESISTOR 47 1/16W R306 NRSA63J-124X M.G. RESISTOR R216 NRSA63J-103X M.G. RESISTOR 10k 1/16W R307 NRSA63J-124X M.G. RESISTOR R221 NRSA63J-103X M.G. RESISTOR 10k 1/16W R307 NRSA63J-61X M.G. RESISTOR R222 NRSA63J-103X M.G. RESISTOR 10k 1/16W R308 NRSA63J-61X M.G. RESISTOR R223 NRSA63J-103X M.G. RESISTOR 10k 1/16W R309 NRSA63J-63X M.G. RESISTOR R224 NRSA63J-103X M.G. RESISTOR 10k 1/16W R310 NRSA63J-392X M.G. RESISTOR R225 NRSA63J-103X M.G. RESISTOR 10k 1/16W R311 NRSA63J-392X M.G. RESISTOR R226 NRSA63J-103X M.G. RESISTOR 10k 1/16W R312 NRSA63J-392X M.G. RESISTOR R226 NRSA63J-103X M.G. RESISTOR 10k 1/16W R313 NRSA63J-392X M.G. RESISTOR R226 NRSA63J-103X M.G. RESISTOR 10k 1/16W R314 NRSA63J-392X M.G. RESISTOR R227 NRSA63J-103X M.G. RESISTOR 10k 1/16W R315 NRSA63J-392X M.G. RESISTOR R228 NRSA63J-103X M.G. RESISTOR 10k 1/16W R315 NRSA63J-392X M.G. RESISTOR R231 NRSA63J-103X M.G. RESISTOR 10k 1/16W R316 NRSA63J-103X M.G. RESISTOR R231 NRSA63J-103X M.G. RESISTOR R232 NRSA63J-103X M.G. RESISTOR R234 NRSA63J-103X M.G.	100 120k 120k 560 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R216	100 120k 120k 560 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R216 NRSA63J.470X M.G.RESISTOR 47 1/16W R306 NRSA63J.124X M.G.RESISTOR R221 NRSA63J.103X M.G.RESISTOR 10k 1/16W R306 NRSA63J.561X M.G.RESISTOR R222 NRSA63J.103X M.G.RESISTOR 10k 1/16W R308 NRSA63J.561X M.G.RESISTOR R223 NRSA63J.103X M.G.RESISTOR 10k 1/16W R310 NRSA63J.332X M.G.RESISTOR R225 NRSA63J.103X M.G.RESISTOR 10k 1/16W R311 NRSA63J.332X M.G.RESISTOR R226 NRSA63J.103X M.G.RESISTOR 10k 1/16W R312 NRSA63J.473X M.G.RESISTOR R227 NRSA63J.103X M.G.RESISTOR 10k 1/16W R314 NRSA63J.473X M.G.RESISTOR R229 NRSA63J.101X M.G.RESISTOR 10k 1/16W R314 NRSA63J.40X M.G.RESISTOR R231 NRSA63J.101X M.G.RESISTOR 10c 1/16W R316 NRSA63J.10X M.G.RESISTOR	120k 120k 560 560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R216 NRSA63J-470X M.G.RESISTOR 47 1/16W R306 NRSA63J-124X M.G.RESISTOR R221 NRSA63J-103X M.G.RESISTOR 10k 1/16W R307 NRSA63J-163X M.G.RESISTOR 10k 1/16W R307 NRSA63J-163X M.G.RESISTOR 10k 1/16W R308 NRSA63J-32X M.G.RESISTOR 10k 1/16W R310 NRSA63J-332X M.G.RESISTOR 10k 1/16W R310 NRSA63J-332X M.G.RESISTOR 10k 1/16W R311 NRSA63J-332X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 10k 1/16W R316 NRSA63J-103X M.G.RESISTOR 10k 1/16W R316 NRSA63J-103X M.G.RESISTOR 10k 1/16W R317 NRSA63J-103X M.G.RESISTOR 10k 1/16W R318 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 1/16W R322 NRSA63J-103X M.G.RESISTOR 1/16W R322 NRSA63J-103X M.G.RESISTOR 1/16W R322 NRSA63J-103X M.G.RESISTOR 1/16W R322 NRSA63J-103X M.G.RESISTOR 1/16W R323 NRSA63J-103X M.G.RESISTOR 1/16W R324 NRSA63J-103X M.G.RESISTOR 1/16W R325 NRSA63J-104X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R326 NRSA63J-103X M	120k 560 560 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R216 NRSA63J-103X M.G.RESISTOR 47 1/16W R306 NRSA63J-103X M.G.RESISTOR 10k 1/16W R307 NRSA63J-103X M.G.RESISTOR 10k 1/16W R307 NRSA63J-561X M.G.RESISTOR M.G.RESISTOR 10k 1/16W R309 NRSA63J-561X M.G.RESISTOR M.G.RESISTOR 10k 1/16W R309 NRSA63J-561X M.G.RESISTOR M.G.RESISTOR 10k 1/16W R309 NRSA63J-561X M.G.RESISTOR M.G.RESISTOR 10k 1/16W R311 NRSA63J-323X M.G.RESISTOR M.G.RESISTOR 10k 1/16W R311 NRSA63J-473X M.G.RESISTOR M.G.	120k 560 560 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R221 NRSA63J-103X M.G.RESISTOR 10k 1/16W R309 NRSA63J-561X M.G.RESISTOR 10k 1/16W R309 NRSA63J-361X M.G.RESISTOR 10k 1/16W R310 NRSA63J-362X M.G.RESISTOR 10k 1/16W R310 NRSA63J-362X M.G.RESISTOR 10k 1/16W R311 NRSA63J-32X M.G.RESISTOR 10k 1/16W R311 NRSA63J-32X M.G.RESISTOR 10k 1/16W R311 NRSA63J-73X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R313 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R315 NRSA63J-103X M.G.RESISTOR 10k 1/16W R316 NRSA63J-10X M.G.RESISTOR 100 1/16W R316 NRSA63J-101X M.G.RESISTOR 100 1/16W R316 NRSA63J-101X M.G.RESISTOR 100 1/16W R317 NRSA63J-103X M.G.RESISTOR 100 1/16W R319 NRSA63J-103X M.G.RESISTOR 100 1/16W R319 NRSA63J-10X M.G.RESISTOR 100 1/16W R319 NRSA63J-10X M.G.RESISTOR 100 1/16W R320 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-101X M.G.RESISTOR 100 1/16W R322 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-101X M.G.RESISTOR 100 1/16W R328 NRSA63J-101X M.G.RESISTOR 100 1/16W R328 NRS	560 560 3.3k 3.3k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R222 NRSA63J-103X M.G.RESISTOR 10k 1/16W R309 NRSA63J-103X M.G.RESISTOR 10k 1/16W R310 NRSA63J-332X M.G.RESISTOR 10k 1/16W R310 NRSA63J-332X M.G.RESISTOR 10k 1/16W R311 NRSA63J-332X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-103X M.G.RESISTOR 10k 1/16W R313 NRSA63J-373X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-105X M.G.RESISTOR 10k 1/16W R315 NRSA63J-105X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 1/16W R321 NRSA63J-392X M.G.RESISTOR 1/16W R322 NRSA63J-392X M.G.RESISTOR 1/16W R322 NRSA63J-392X M.G.RESISTOR 1/16W R324 NRSA63J-333X M.G.RESISTOR 1/16W R324 NRSA63J-333X M.G.RESISTOR 1/16W R324 NRSA63J-333X M.G.RESISTOR 1/16W R324 NRSA63J-30X M.G.RESISTOR 1/16W R324 NRSA63J-392X M.G.RESISTOR 1/16W R325 NRSA63J-10X M.G.RESISTOR 1/16W R326 NRSA63J-30X M.G.RESISTOR 1/16W R326 NRSA63J-10X M.G.RESISTOR 1/16W R326 NRSA63J-10X M.G.RESISTOR 1/16W R327 NRSA63J-10X M.G.RESISTOR 1/16W R328 NRSA63J-10X M.G.RESISTOR 1/16W R328 NRSA63J-30X M.G.RESISTOR 1/16W R328	560 3.3k 3.3k 47k 47k 47k 3.9k 3.9k 1M 1M	1/16W 1/16W 1/16W 1/16W 1/16W
R223 NRSA63J-103X M.G.RESISTOR 10k 1/16W R309 R3A63J-332X M.G.RESISTOR R224 NRSA63J-103X M.G.RESISTOR 10k 1/16W R311 NRSA63J-332X M.G.RESISTOR R226 NRSA63J-103X M.G.RESISTOR 10k 1/16W R311 NRSA63J-473X M.G.RESISTOR R227 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR R227 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR R229 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR R229 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR R229 NRSA63J-101X M.G.RESISTOR 100 1/16W R316 NRSA63J-105X M.G.RESISTOR R220 NRSA63J-101X M.G.RESISTOR 100 1/16W R316 NRSA63J-103X M.G.RESISTOR R221 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR R223 NRSA63J-101X M.G.RESISTOR 100 1/16W R319 NRSA63J-103X M.G.RESISTOR R224 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-102X M.G.RESISTOR R226 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R226 NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-333X M.G.RESISTOR R224 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R224 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R224 NRSA63J-101X M.G.RESISTOR 100 1/16W R327 NRSA63J-103X M.G.RESISTOR R224 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR 100 1/16W R327 NRSA63J-103X M.G.RESISTOR 100 1/16W R328 NRSA63J-103X M.G.RESISTOR 100 1/16W R328 NRSA63J-103X M.G.RESISTOR 100 1/16W R328 NRSA63J-103X M.G.RESI	3.3k 3.3k 47k 47k 3.9k 3.9k 1 M 1 M	1/16W 1/16W 1/16W 1/16W
R224 NRSA63J-103X M.G.RESISTOR 10k 1/16W R310 NRSA63J-332X M.G.RESISTOR R225 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR R227 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR R228 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR R229 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR R230 NRSA63J-101X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR R231 NRSA63J-101X M.G.RESISTOR 10k 1/16W R317 NRSA63J-103X M.G.RESISTOR R232 NRSA63J-101X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR R233 NRSA63J-101X M.G.RESISTOR 10k 1/16W R320 NRSA63J-103X M.G.RESISTOR	3.3k 47k 47k 3.9k 3.9k 1 M 1 M 10k	1/16W 1/16W 1/16W
R225 NRSA63J-103X M.G.RESISTOR 10k 1/16W R311 NRSA63J-473X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR 10k 1/16W R313 NRSA63J-473X M.G.RESISTOR 10k 1/16W R313 NRSA63J-473X M.G.RESISTOR 10k 1/16W R313 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R315 NRSA63J-105X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R318 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 10k 1/16W R321 NRSA63J-103X M.G.RESISTOR 1/16W R321 NRSA63J-392X M.G.RESISTOR 1/16W R322 NRSA63J-333X M.G.RESISTOR 1/16W R323 NRSA63J-333X M.G.RESISTOR 1/16W R324 NRSA63J-333X M.G.RESISTOR 1/16W R325 NRSA63J-333X M.G.RESISTOR 1/16W R326 NRSA63J-333X M.G.RESISTOR 1/16W R326 NRSA63J-333X M.G.RESISTOR 1/16W R327 NRSA63J-333X M.G.RESISTOR 1/16W R328 NRSA63J-103X M.G.RESISTOR 1/16W R329 NRSA63J-103X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R327 NRSA63J-103X M.G.RESISTOR 1/16W R328 NRSA63J-103X M.G.RESISTOR 1/16W R329 NRSA63J-103X M.G.RESISTOR 1/16W R329 NRSA63J-103X M.G.RESISTOR 1/16W R329 NRSA63J-103X M.G.RESISTOR 1/16W R320 NRSA63J-103X M.G.RESISTOR	47k 47k 3.9k 3.9k 1 M 1 M 10k	1/16W 1/16W
R226 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR 10k 1/16W R313 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R315 NRSA63J-392X M.G.RESISTOR 10k 1/16W R316 NRSA63J-392X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-102X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R322 NRSA63J-392X M.G.RESISTOR 10k 1/16W R324 NRSA63J-392X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-103X M.G.RESISTOR 10k 1/16W R326 NRSA63J-103X M.G.RESISTOR 10k 1/16W R327 NRSA63J-103X M.G.RESISTOR 10k 1/16W R328 NRSA63J-103X M.G.RESISTOR 10k 1/16W R328 NRSA63J-103X M.G.RESISTOR 10k 1/16W R331 NRSA63J-103X M.G.RESISTOR 10k 1/16W R332 NRSA63J-103X M.G.RESISTOR 10k 1/16W R333 NRSA63J-103X M.G.RESISTOR 10k 1/16W R334	47k 3.9k 3.9k 1 M 1 M 1 0k	1/16W
R226 NRSA63J-103X M.G.RESISTOR 10k 1/16W R312 NRSA63J-473X M.G.RESISTOR 10k 1/16W R313 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R315 NRSA63J-392X M.G.RESISTOR 10k 1/16W R316 NRSA63J-392X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R317 NRSA63J-105X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R319 NRSA63J-103X M.G.RESISTOR 10k 1/16W R320 NRSA63J-102X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R321 NRSA63J-392X M.G.RESISTOR 10k 1/16W R322 NRSA63J-392X M.G.RESISTOR 10k 1/16W R324 NRSA63J-392X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-333X M.G.RESISTOR 10k 1/16W R324 NRSA63J-103X M.G.RESISTOR 10k 1/16W R326 NRSA63J-103X M.G.RESISTOR 10k 1/16W R327 NRSA63J-103X M.G.RESISTOR 10k 1/16W R328 NRSA63J-103X M.G.RESISTOR 10k 1/16W R328 NRSA63J-103X M.G.RESISTOR 10k 1/16W R331 NRSA63J-103X M.G.RESISTOR 10k 1/16W R332 NRSA63J-103X M.G.RESISTOR 10k 1/16W R333 NRSA63J-103X M.G.RESISTOR 10k 1/16W R334	47k 3.9k 3.9k 1 M 1 M 1 0k	1/16W
R227 NRSA63J-103X M.G.RESISTOR 10k 1/16W R313 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR 10k 1/16W R315 NRSA63J-105X M.G.RESISTOR 10k 1/16W R316 NRSA63J-105X M.G.RESISTOR 100 1/16W R317 NRSA63J-105X M.G.RESISTOR 100 1/16W R318 NRSA63J-105X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR 100 1/16W R319 NRSA63J-103X M.G.RESISTOR 100 1/16W R319 NRSA63J-103X M.G.RESISTOR 100 1/16W R320 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-102X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR 1/16W R322 NRSA63J-392X M.G.RESISTOR 1/16W R323 NRSA63J-392X M.G.RESISTOR 1/16W R324 NRSA63J-392X M.G.RESISTOR 1/16W R325 NRSA63J-392X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R326 NRSA63J-103X M.G.RESISTOR 1/16W R327 NRSA63J-103X M.G.RESISTOR 1/16W R328 NRSA63J-103X M.G.RESISTOR 1/16W R331 NRSA63J-103X M.G.RESISTOR 1/16W R331 NRSA63J-103X M.G.RESISTOR 1/16W R332 NRSA63J-103X M.G.RESISTOR 1/16W R333 NRSA63J-103X M.G.RESISTOR 1/16W R334 NRSA63J-103X M.G.RESISTOR 1/16W R335 NRSA63J-103X M.G.RESISTOR 1/16W 1	3.9k 3.9k 1M 1M 10k	
R228 NRSA63J-103X NRSA63J-101X M.G.RESISTOR M.G.RESISTOR 10k 1/16W 1/16W R313 R31 NRSA63J-392X NRSA63J-105X NRSA63J-101X M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR R00 1/16W R316 R315 R316 NRSA63J-105X NRSA63J-105X NRSA63J-101X NRSA63J-101X M.G.RESISTOR M.G.RESISTOR 100 1/16W R318 R316 R316 NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-101X NRSA63J-104X NRSA63J-104X NRSA63J-104X NRSA63J-104X NRSA63J-101	3.9k 1M 1M 10k	1/16\//
R229 NRSA63J-103X M.G.RESISTOR 10k 1/16W R314 NRSA63J-392X M.G.RESISTOR R230 NRSA63J-101X M.G.RESISTOR 100 1/16W R316 NRSA63J-105X M.G.RESISTOR NRSA63J-105X M.G.RESISTOR NRSA63J-105X M.G.RESISTOR NRSA63J-105X M.G.RESISTOR NRSA63J-105X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-102X M.G.RESISTOR NRSA63J-102X M.G.RESISTOR NRSA63J-102X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 1/16W R320 NRSA63J-102X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 1/16W R321 NRSA63J-392X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 1/16W R321 NRSA63J-392X M.G.RESISTOR NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-333X M.G.RESISTOR NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 1/16W R326 NRSA63J-392X M.G.RESISTOR NRSA63J-103X M.G.RESISTO	3.9k 1M 1M 10k	
R230 NRSA63J-101X M.G.RESISTOR 100 1/16W R315 NRSA63J-105X M.G.RESISTOR R231 NRSA63J-101X M.G.RESISTOR 100 1/16W R317 NRSA63J-103X M.G.RESISTOR R232 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR R233 NRSA63J-101X M.G.RESISTOR 100 1/16W R319 NRSA63J-102X M.G.RESISTOR R234 NRSA63J-101X M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR R235 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R322 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-17X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-339X M.G.RESISTOR	1M 1M 10k	
R230 NRSA63J-101X M.G.RESISTOR 100 1/16W R316 NRSA63J-103X M.G.RESISTOR R231 NRSA63J-101X M.G.RESISTOR 100 1/16W R317 NRSA63J-103X M.G.RESISTOR R232 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-102X M.G.RESISTOR R234 NRSA63J-101X M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-102X M.G.RESISTOR R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-104X M.G.RESISTOR 100 1/16W R326 NRSA63J-333X M.G.RESISTOR	1M 10k	1/16W
R231 NRSA63J-101X M.G.RESISTOR 100 1/16W R317 NRSA63J-103X M.G.RESISTOR R232 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR R233 NRSA63J-101X M.G.RESISTOR 100 1/16W R319 NRSA63J-102X M.G.RESISTOR R235 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-102X M.G.RESISTOR R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R236 NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-392X M.G.RESISTOR R238 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-3333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-103X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR	10k	1/16W
R231 NRSA63J-101X M.G.RESISTOR 100 1/16W R317 NRSA63J-103X M.G.RESISTOR R232 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR R234 NRSA63J-101X M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR R235 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-102X M.G.RESISTOR R236 NRSA63J-471X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R239 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR		1/16W
R232 NRSA63J-101X M.G.RESISTOR 100 1/16W R318 NRSA63J-103X M.G.RESISTOR R233 NRSA63J-101X M.G.RESISTOR 100 1/16W R319 NRSA63J-102X M.G.RESISTOR R234 NRSA63J-101X M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-333X M.G.RESISTOR R238 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-103X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-103X M.G.RESISTOR	101	1/16W
R233 NRSA63J-101X M.G.RESISTOR 100 1/16W R319 NRSA63J-102X M.G.RESISTOR N.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR M.G.RESISTOR R321 NRSA63J-392X M.G.RESISTOR M.G.RESISTOR R321 NRSA63J-392X M.G.RESISTOR M.G.RESISTOR R321 NRSA63J-392X M.G.RESISTOR M.G.RESISTOR R322 NRSA63J-392X M.G.RESISTOR M.G.RESISTOR R322 NRSA63J-392X M.G.RESISTOR M.G.RESISTOR<	10k	1/16W
R234 NRSA63J-101X M.G.RESISTOR 100 1/16W R320 NRSA63J-102X M.G.RESISTOR R235 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R236 NRSA63J-471X M.G.RESISTOR 470 1/16W R322 NRSA63J-392X M.G.RESISTOR R238 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R239 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-103X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR	1k	1/16W
R235 NRSA63J-101X M.G.RESISTOR 100 1/16W R321 NRSA63J-392X M.G.RESISTOR R236 NRSA63J-471X M.G.RESISTOR 100 1/16W R322 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R239 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R249 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R247 NRSA63J-101X M.G.RESISTOR 100k 1/16W R329 NRSA63J-12X M.G.RESISTOR	1k	1/16VV
R236 NRSA63J-101X M.G.RESISTOR 100 1/16W R322 NRSA63J-392X M.G.RESISTOR R237 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R239 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R326 NRSA63J-103X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-392X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 100k 1/16W R330 NRSA63J-12X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR <td></td> <td></td>		
R237 NRSA63J471X M.G.RESISTOR 470 1/16W R323 NRSA63J4333X M.G.RESISTOR R238 NRSA63J471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R326 NRSA63J-103X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-12X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 100 1/16W R330 NRSA63J-12X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR	3.9k	1/16W
R238 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR R239 NRSA63J-471X M.G.RESISTOR 470 1/16W R324 NRSA63J-333X M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-392X M.G.RESISTOR R247 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR <td>3.9k</td> <td>1/16W</td>	3.9k	1/16W
R238 NRSA63J-471X M.G.RESISTOR 470 1/16W R323 NRSA63J-333X M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR R324 NRSA63J-333X M.G.RESISTOR M.G.RESISTOR NRSA63J-103X M.G.RESISTOR M.G.RESISTOR NRSA63J-104X		
R239 NRSA63J-101X M.G.RESISTOR 470 1/16W R324 NRSA63J-103X M.G.RESISTOR M.G.RESISTOR R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R325 NRSA63J-103X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR 100k 1/16W R330 NRSA63J-122X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R333 NRSA63J-471X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR NRSA63J-473X M.G.RESISTOR NRSA63J-473X M.G.RESISTOR NRSA63J-562X M.G.RESISTOR NRSA63J-473X M.G.RESISTOR 1/16W R336 NRSA63J-562X M.G.RESISTOR NRSA63J-103X M.G.RESISTOR 1/16W R338 NRSA63J-562X M.G.RESISTOR 1/16W R338 NRSA63J-562X M.G.RESISTOR 1/16W R338 NRSA63J-562X M.G.RESISTOR 1/16W R338 NRSA63J-104X M.G.RESISTOR 1/16W R339 NRSA63J-	33k	1/16W
R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R325 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R326 NRSA63J-103X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-12X M.G.RESISTOR R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR R250 NRSA63J-104X M.G.RESISTOR 100 1/16W R333 NRSA63J-821X M.G.RESISTOR R252 NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR <td>33k</td> <td>1/16W</td>	33k	1/16W
R242 NRSA63J-101X M.G.RESISTOR 100 1/16W R326 NRSA63J-103X M.G.RESISTOR R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 100 1/16W R330 NRSA63J-12X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-821X M.G.RESISTOR R251 NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR R252 NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR <td>10k</td> <td>1/16W</td>	10k	1/16W
R244 NRSA63J-104X M.G.RESISTOR 100k 1/16W R327 NRSA63J-392X M.G.RESISTOR R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R247 NRSA63J-101X M.G.RESISTOR 10k 1/16W R330 NRSA63J-12X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR R251 NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR R252 NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR <td>10k</td> <td>1/16W</td>	10k	1/16W
R245 NRSA63J-104X M.G.RESISTOR 100k 1/16W R328 NRSA63J-392X M.G.RESISTOR R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 10k 1/16W R330 NRSA63J-122X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100 1/16W R333 NRSA63J-821X M.G.RESISTOR R252 NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-103X		
R246 NRSA63J-104X M.G.RESISTOR 100k 1/16W R329 NRSA63J-122X M.G.RESISTOR R247 NRSA63J-103X M.G.RESISTOR 10k 1/16W R330 NRSA63J-122X M.G.RESISTOR R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR<	3.9k	1/16W
R247 R248 R340 R351	3.9k	1/16W
R248 NRSA63J-101X M.G.RESISTOR 100 1/16W R331 NRSA63J-471X M.G.RESISTOR R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	1.2k	1/16W
R248	1.2k	1/16W
R249 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR R250 NRSA63J-101X M.G.RESISTOR 100 1/16W R332 NRSA63J-471X M.G.RESISTOR R251 NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	470	1/16W
R250	470	1/16W
R251 NRSA63J-104X M.G.RESISTOR 100k 1/16W R333 NRSA63J-821X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR 100k 1/16W R335 NRSA63J-821X M.G.RESISTOR 1/16W R336 NRSA63J-562X M.G.RESISTOR 1/16W R336 NRSA63J-562X M.G.RESISTOR 1/16W R337 NRSA63J-562X M.G.RESISTOR 1/16W R337 NRSA63J-562X M.G.RESISTOR 1/16W R338 NRSA63J-562X M.G.RESISTOR 1/16W R338 NRSA63J-562X M.G.RESISTOR 1/16W R336 NRSA63J-104X M.G.RESISTOR 1/16W R338 NRSA63J-104X M.G.RESISTOR 1/16W R339 NRSA63J-104X M.G.RESISTOR 1/16W 1/16W R339 NRSA63J-104X M.G.RESISTOR 1/16W 1/1	1	.,
R252 NRSA63J-104X M.G.RESISTOR 100k 1/16W R334 NRSA63J-821X M.G.RESISTOR R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R335 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	820	1/16W
R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R335 NRSA63J-562X M.G.RESISTOR M.G.RE		
R253 NRSA63J-473X M.G.RESISTOR 47k 1/16W R336 NRSA63J-562X M.G.RESISTOR R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	820	1/16W
R254 NRSA63J-473X M.G.RESISTOR 47k 1/16W R337 NRSA63J-562X M.G.RESISTOR R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	5.6k	1/16W
R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	5.6k	1/16W
R261 NRSA63J-103X M.G.RESISTOR 10k 1/16W R338 NRSA63J-562X M.G.RESISTOR R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR M.G.RESISTOR R339 NRSA63J-104X M.G.RESISTOR M.G.RESISTOR R339 NRSA63J-104X M.G.RESISTOR M	5.6k	1/16W
R262 NRSA63J-103X M.G.RESISTOR 10k 1/16W R339 NRSA63J-104X M.G.RESISTOR	5.6k	1/16W
	100k	1/16W
R263 NRSA63J-822X M.G.RESISTOR 8.2k 1/16W R340 NRSA63J-104X M.G.RESISTOR	100k	1/16W
	22k	1/16W
	22k	1/16W
R266 NRSA63J-822X M.G.RESISTOR 8.2k 1/16W	1	
	4.7	1/16W
R268 NRSA63J-303X M.G.RESISTOR 30k 1/16W R344 NRSA63J-123X M.G.RESISTOR	12k	1/16W
	2k	1/16W
	2k	1/16W
	3.9k	1/16W
	3.9k	1/16W
R272 NRSA63J-332X M.G.RESISTOR 3.3k 1/16W R401 NRSA63J-121X M.G.RESISTOR	120	1/16W
R273 NRSA63J-242X M.G.RESISTOR 2.4k 1/16W R402 NRSA63J-121X M.G.RESISTOR	120	1/16W
R274 NRSA63J-822X M.G.RESISTOR 8.2k 1/16W R403 NRSA63J-121X M.G.RESISTOR	120	1/16W
R275 NRSA63J-473X M.G.RESISTOR 47k 1/16W R404 NRSA63J-104X M.G.RESISTOR	100k	1/16W
R276 NRSA63J-103X M.G.RESISTOR 10k 1/16W		
	100k	1/16W
R278 NRSA63J-102X M.G.RESISTOR 1k 1/16W R406 NRSA63J-104X M.G.RESISTOR	100k	1/16W
R407 NRSA63J-104X M.G.RESISTOR	100k	1/16W
R279 NRSA63J-202X M.G.RESISTOR 2k 1/16W R408 NRSA63J-104X M.G.RESISTOR	100k	1/16W
R280 NRSA63J-202X M.G.RESISTOR 2k 1/16W R409 NRSA63J-101X M.G.RESISTOR	100	1/16W
	1k	1/16W
	11004	1/16W
	100k	1/16W
	1k	1/16W
R285 NRSA63,J-333X M.G.RESISTOR 33k 1/16W R414 NRSA63,J-333X M.G.RESISTOR	1	1/16W

Symbol No.	Part No.	Part Name	Desc	ription
R415	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R416	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R417	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R418	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R419	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R419	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R421	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R422	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R423 R424	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R424	MASAGGGFTOOK	W.G.NEGIOTON	1.0	,,,,,,,,
R425	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R426	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R427	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R428	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R429	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R430	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R431	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R432	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R433	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R434	NN3A033-104A	W.G.HESISTON	. 1000	1,1011
DAGE	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R435	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R436	NRSA63J-104X	M.G.RESISTOR	470	1/16VV
R437		M.G.RESISTOR	75	1/16VV
R438	NRSA63J-750X	M.G.RESISTOR	10k	1/16VV
R439	NRSA63J-103X	M.G.RESISTOR	2.7k	1/16VV
R440	NRSA63J-272X NRSA63J-470X	M.G.RESISTOR	47	1/16VV
R441		M.G.RESISTOR	47	1/16W
R442	NRSA63J-470X	M.G.RESISTOR	330k	1/16VV
R443	NRSA63J-334X	M.G.RESISTOR	15k	1/16W
R444	NRSA63J-153X	WI.G. NESISTON	10K	1/1044
DAAE	NIDCAGO L 100V	M.G.RESISTOR	12k	1/16W
R445	NRSA63J-123X NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R446		M.G.RESISTOR	100k	1/16W
R451	NRSA63J-104X	M.G.RESISTOR	220k	1/16W
R452	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R453	NRSA63J-224X	M.G.RESISTOR	100	1/16W
R454	NRSA63J-101X	M.G.RESISTOR	330k	1/16W
R455	NRSA63J-334X NRSA63J-271X	M.G.RESISTOR	270	1/16W
R456		M.G.RESISTOR	270	1/16W
R457	NRSA63J-271X NRSA63J-220X	M.G.RESISTOR	22	1/16W
R458	INNSA033-220A	W.G.NESISTON	122	1,1000
R459	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R460	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R461	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R462	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R463	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R464	NRSA63J-470X	M.G.RESISTOR	47	1/16W
	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R465 R466	NRSA63J-470X	M.G.RESISTOR	47	1/16W
	110010011001	M.G.RESISTOR	47	1/16W
R467	NRSA63J-470X NRSA63J-470X	M.G.RESISTOR	47	1/16W
11400	14110/1000-470/		1.7	
R469	NRSA63J-824X	M.G.RESISTOR	820k	1/16W
R470	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R470	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R471	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R473	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R474	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R474	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R476	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R477	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R478	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
1,				
R479	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R480	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R481	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R482	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R483	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R484		M.G.RESISTOR	330	1/16W
R485		M.G.RESISTOR	10k	1/16W
R486		M.G.RESISTOR	270	1/16W
R487		M.G.RESISTOR	47	1/16W
1170/		M.G.RESISTOR	10k	1/16W
RARR				
R488		ì	1	
1		M.G.RESISTOR	270	1/16W
R488 R489 R490	NRSA63J-271X	M.G.RESISTOR M.G.RESISTOR	270 47	1/16W 1/16W 1/16W

Symbol No.	Part No.	Part Name	De	scription
R492	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R493	NRSA63J-334X	M.G.RESISTOR	330k	1/16W
R494	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R495	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R496	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R497	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R498	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R500	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R502	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R503	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R504	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R505	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R506	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R507	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R511	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R512	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R513	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R514	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R515	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R516	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R556	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R557	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R558	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R559	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R560	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R561	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R562	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R563	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R564	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R565	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R566	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R567	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R568	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R601	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R602	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R603	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R604	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R605	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R606	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R607	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R608	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R609	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R610	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R621	NRSA63J-0R0X	M.G.RESISTOR	0	1/ 1 6W
R622	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R623	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R627	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R630	NRSA63J-0R0X	M.G.RESISTOR	О	1/16W
R632	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R633	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R634	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R635	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R636	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R637	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R638	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R639	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R640	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R641	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R642	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R643	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R645	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R651	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R652	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R701	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R702	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R703 R704	NRSA63J-102X NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	1 k 100k	1/16W 1/16W
		M.C. DECISTOR	10k	1/16W
R705	NRSA63J-103X	M.G.RESISTOR	33k	1/16W
R706	NRSA63J-333X	M.G.RESISTOR		
R707	NRSA02J-510X	M.G.RESISTOR M.G.RESISTOR	51 47k	1/10W 1/16W
		LINE IS RESISTED.	14/K	1/ 10//
R708 R709	NRSA63J-473X NRSA63J-330X	M.G.RESISTOR	33	1/16W

Symbol No.	Part No.	Part Name	Description
R711	NRSA63J-474X	M.G.RESISTOR	470k 1/16W
R712	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R713	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R714	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R715	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R717	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R718	NRSA63J-122X	M.G.RESISTOR	1.2k 1/16W
R719	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R720	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R727	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R728	NRSA02J-510X	M.G.RESISTOR	51 1/10W
VR1	QVAA15A-S14	V.RESISTOR	10k AUD1 REC L
VR2	QVAA15A-S14	V.RESISTOR	10k AUD2 REC L
VR201	PGZ01538	TRIM.RESISTOR	AUDIO MONITOR V
VR202	QVQ0031-A14	VAL.RESISTOR	10k ALARM VOL
VR261	NVP1415-103X	TRIM.RESISTOR	10k AUD1 OUT L
VR262	NVP1415-103X	TRIM.RESISTOR	10k AUD2 OUT L
C1 C2 C3 C4 C5 C6 C7 C8 C9	NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HJ-221X NCS31HK-222X NCB31HK-222X	CER.CAPACITOR	220p 50V 220p 50V
C11 C12 C13 C14 C15 C16 C17 C18 C19 C20	NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X NEH91HM-105X	E.CAPACITOR	1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V 1 50V
C21 C22 C23 C24 C25 C26 C27 C28 C29 C30	NEH91HM-105X NEH91HM-105X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X	E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	1 50V 1 50V 100p 50V 100p 50V 100p 50V 100p 50V 0.1 16V 0.1 16V 10 10V
C31	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.1 16V
C32	NCF31CZ-104X		0.1 16V
C33	NBE41AM-106X		10 10V
C34	NBE41AM-106X		10 10V
C35	NCS31HJ-101X		100p 50V
C36	NCS31HJ-101X		100p 50V
C47	NBE20JM-106X		10 6.3V
C48	NBE20JM-106X		10 6.3V
C49	NBE20JM-106X		10 6.3V
C50	NBE20JM-106X		10 6.3V
C51 C52 C53 C54 C55 C56 C57 C58 C59 C60	NCS31HJ-101X NCS31HJ-101X NCF31CZ-104X NCF31CZ-104X NBE41CM-106X NBE41CM-106X NBE21VM-474X NBE21VM-474X NBE21VM-476X NBE71CM-476X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	100p 50V 100p 50V 0.1 16V 0.1 16V 10 16V 10 16V 0.47 35V 47 16V
C61	NBE21VM-474X	TAN.CAPACITOR	0.47 35V
C62	NBE21VM-474X	TAN.CAPACITOR	0.47 35V
C69	NCF31CZ-104X	CER.CAPACITOR	0.1 16V

Symbol No.	Part No.	Part Name	Desc	ription
C70 C73 C74 C85 C86 C87 C88	NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NBE20JM-106X NBE20JM-106X NBE20JM-106X NBE20JM-106X NBE20JM-106X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.1 0.1 0.1 10 10 10	16V 16V 16V 6.3V 6.3V 6.3V
C101 C102 C103 C104 C105 C106 C107 C108 C109 C110	NBE41CM-106X NBE41CM-106X NBE41EM-475X NBE41EM-475X NCS31HJ-101X NCS31HJ-101X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	10 10 4.7 4.7 100p 100p 10 10	16V 16V 25V 25V 50V 50V 16V 16V 16V
C113 C114 C115 C116 C117 C118 C119 C120 C121 C122	NBE51CM-226X NBE51CM-226X NCF31CZ-104X NCF31CZ-104X NBE71CM-476X NBE71CM-476X NBE51VM-475X NBE51VM-475X NCS31HJ-101X NCS31HJ-101X	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR	22 22 0.1 0.1 47 47 4.7 100p 100p	16V 16V 16V 16V 16V 35V 35V 35V 50V
C123 C124 C125 C126 C127 C128 C129 C130 C131 C132	NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X NCF31CZ-104X NCF31CZ-104X NBE41AM-106X NBE41AM-106X NCS31HJ-101X NCS31HJ-101X	CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 0.1 10 10 0.1 0.1 0.1 10 10 100p	16V 16V 10V 10V 16V 16V 10V 10V 50V
C133 C134 C135 C136 C137 C138 C141 C142 C143	NBE21VM-474X NBE21VM-474X NBE21EM-105X NBE21EM-105X NBE21CM-105X NBE21CM-105X NEN21VM-225X NEN21VM-225X NBE41CM-106X NBE41CM-106X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	0.47 0.47 1 1 1 2.2 2.2 10	35V 35V 25V 25V 16V 16V 35V 35V 16V
C145 C146 C147 C148 C181 C182 C183 C184 C185 C186	NBE41EM-475X NBE41EM-475X NEN21EM-475X NEN21EM-475X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-126X NBE51CM-226X NBE51CM-226X	TAN.CAPACITOR TAN.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	4.7 4.7 4.7 4.7 10 10 10 10 22 22	25V 25V 25V 25V 16V 16V 16V 16V 16V
C187 C188 C191 C193 C194 C201 C203 C204 C205 C206	NBE71CM-476X NBE71CM-476X NBE41CM-106X NCF31CZ-104X NBE71CM-476X NBE41CM-106X NCF31CZ-104X NCF31CZ-104X NFV41HJ-152X NFV41HJ-152X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR M.F.CAPACITOR M.F.CAPACITOR	47 47 10 0.1 47 10 0.1 0.1 1500p 1500p	16V 16V 16V 16V 16V 16V 16V 50V
C207 C208 C211 C212 C213 C214	NBE71CM-476X NCF31CZ-104X NCF31CZ-104X NBE41CM-106X NCF31CZ-104X NBE41CM-106X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR	47 0.1 0.1 10 0.1	16V 16V 16V 16V 16V

Symbol No.	Part No.	Part Name	Descr	iption
C215	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C216	NBE41CM-106X	TAN.CAPACITOR	10	16V
C217	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C218	NBE41CM-106X	TAN.CAPACITOR	10	16V
C219	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C227	NBE41CM-106X	TAN.CAPACITOR	10	16V
C228	NBE41CM-106X	TAN.CAPACITOR	10	16V
C229	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C230	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C231	NBE41CM-106X	TAN.CAPACITOR	10	16V
C232	NBE41CM-106X	TAN.CAPACITOR	10	16V
C233	NCF31CZ-104X	CER.CAPACITOR	0.1	16V 16V
C234 C235	NCF31CZ-104X NBE41CM-106X	CER.CAPACITOR TAN.CAPACITOR	0.1	16V
C236	NBE41CM-106X	TAN.CAPACITOR	10	16V
C236	NBE41CM-106X	TAN.CAPACITOR	10	16V
C237	NBE41CM-106X	TAN.CAPACITOR	10	16V
C240	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C241	NBE41CM-106X	TAN.CAPACITOR	10	16V
C242	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C244	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C252	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C253	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C261	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C262	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C263	NCS21HJ-680X	CER.CAPACITOR	68p	50V
C264	NCS21HJ-680X	CER.CAPACITOR	68p	50V
C265	NBE41CM-106X	TAN.CAPACITOR	10	16V
C266	NBE41CM-106X	TAN.CAPACITOR	10	16V
C267	NBE61EM-226X	TAN.CAPACITOR	22	25V 25V
C268	NBE61EM-226X	TAN.CAPACITOR	22	50V
C269	NCS31HJ-101X	CER.CAPACITOR	100p 100p	50V 50V
C270 C273	NCS31HJ-101X NCB31HK-222X	CER.CAPACITOR CER.CAPACITOR	2200p	50V
C275	NBE41EM-475X	TAN.CAPACITOR	4.7	25V
C276	NBE41EM-475X	TAN.CAPACITOR	4.7	25V
C277	NBE61EM-226X	TAN.CAPACITOR	22	25V
C278	NBE51EM-106X	TAN.CAPACITOR	10	25V
C279	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C280	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C281	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C282	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C283 C287	NBE61EM-226X NCF31CZ-104X	TAN.CAPACITOR	0.1	25V 16V
			47	16V
C288	NBE71CM-476X	TAN.CAPACITOR	47	16V
C289	NBE71CM-476X	CER.CAPACITOR	0.1	16V
C290	NCF31CZ-104X	CER.CAPACITOR	820p	50V
C301	NCS31HJ-821X NCS31HJ-821X	CER.CAPACITOR	820p	50V
C302 C303	NBE41EM-475X	TAN.CAPACITOR	4.7	25V
C304	NBE41EM-475X	TAN.CAPACITOR	4.7	25V
C305	NCS31HJ-680X	CER.CAPACITOR	68p	50V
C306	NCS31HJ-680X	CER.CAPACITOR	68p	50V
C307	NFV41HJ-273X	M.F. CAPACITOR	0.027	50V
C308	NFV41HJ-273X	M.F. CAPACITOR	0.027	50V
C309	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C310	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C311	NBE71CM-476X	TAN.CAPACITOR	47	16V
C312	NBE71CM-476X	TAN.CAPACITOR	47	16V
C313	NBE71CM-476X	TAN.CAPACITOR	47	16V
C314	NBE71CM-476X	TAN.CAPACITOR	47	16V
C315	NEN21CM-106X	N.P.CAPACITOR	10	16V
C316 C317	NEN21CM-106X NCS31HJ-101X	N.P.CAPACITOR CER.CAPACITOR	10 100p	16V 50V
				50V
C318	NCS31HJ-101X	CER.CAPACITOR	100p 100p	50V 50V
C319	NCS31HJ-101X	CER.CAPACITOR CER.CAPACITOR	100p	50V
C320	NCS31HJ-101X	TAN.CAPACITOR	22	16V
C321	NBE51CM-226X NBE51CM-226X	TAN.CAPACITOR	22	16V
C322	NBE51CM-226X NBE51CM-226X	TAN.CAPACITOR	22	16V
പ്രാവ	INDED TOWEZZON		22	16V
C323	NRE51CM-226X	TAN.CAPACHOR	122	
C323 C324 C325	NBE51CM-226X NEN41EM-226X	TAN.CAPACITOR N.P.CAPACITOR	22	25V

Symbol			Description		
No.	Part No.	Part Name	Description		
C327 C328 C329 C330 C331 C332 C333 C334 C335 C336	NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NCS31HJ-101X NEE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X NBE41CM-106X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	100p 100p 100p 100p 100p 100p 10 10	50V 50V 50V 50V 50V 16V 16V 16V	
C337 C338 C339 C340 C341 C342 C343 C344 C345 C346 C347	NFV41HJ-272X NFV41HJ-272X NFV41HJ-102X NFV41HJ-102X NCF31CZ-104X NCF31CZ-104X NBE71CM-476X NBE71CM-476X NBE71CM-476X NBE71CM-476X NBE71CM-476X NBE71CM-476X NBE21EM-105X	M.F. CAPACITOR M.F. CAPACITOR M.F. CAPACITOR M.F. CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR	2700p 2700p 1000p 1000p 0.1 0.1 47 47 47 47	50V 50V 50V 50V 16V 16V 16V 16V 16V 25V	
C348 C349 C350 C351 C352 C353 C354 C355 C371 C372	NBE21EM-105X NCS31HJ-181X NCS31HJ-181X NBE41CM-106X NCB31HK-392X NCB31HK-561X NCF31HZ-333X NCF31HZ-473X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 180p 180p 10 3900p 560p 0.033 0.047 0.1	25V 50V 50V 16V 50V 50V 50V 50V 16V 16V	
C401 C402 C403 C404 C405 C406 C407 C408 C409 C410	NBE51EM-106X NCF31CZ-104X NBE61EM-226X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 0.1 22 0.1 0.1 0.1 0.1 0.1 0.1 0.1	25V 16V 25V 16V 16V 16V 16V 16V 16V	
C411 C412 C413 C414 C415 C416 C418 C419 C420 C421	NCF31CZ-104X NCB31HK-103X NCF31CZ-104X NCB31CK-333X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NBE51EM-106X	CER.CAPACITOR	0.1 0.01 0.1 0.033 0.1 0.1 0.1 0.1 0.1	16V 50V 16V 16V 16V 16V 16V 16V 25V	
C422 C423 C424 C425 C426 C428 C429 C431 C432 C433	NBE21EM-474X NBE51CM-226X NBE51CM-336X NBE71CM-476X NCS31HJ-180X NCF31CZ-104X NCS31HJ-150X NCS31HJ-150X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.47 22 33 47 18p 0.1 15p 15p 0.1	25V 16V 16V 50V 16V 50V 50V 16V 16V	
C434 C435 C436 C437 C438 C439 C440 C441 C442 C443	NCS31HJ-101X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NEH91HM-105X NCB31HK-102X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	100p 0.1 0.1 0.1 1 1000p 0.1 0.1 0.1	50V 16V 16V 50V 50V 16V 16V 16V	
C444 C445	NBE51EM-106X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR	10 0.1	25V 16V	

CA46	Symbol No.	Part No.	Part Name	Description
CA49 NCF31C2-10AX CER.CAPACITOR 0.1 16V CER.CAPACITOR 0.1 16V CER.CAPACITOR 0.1 16V CER.CAPACITOR 0.1 16V CER.CAPACITOR 0.33 16V CER.CAPACITOR 0.25V CER.CAPACITOR 0.1 16V CAPACITOR 0.25V CER.CAPACITOR 0.1 16V CAPACITOR 0.1		NRF61FM-226X	TAN CAPACITOR	22 25V
CA49 NCF31CZ-10AX CER.CAPACITOR 0.1 16V CER.CAPACITOR 0.33 16V CER.CAPACITOR 0.33 16V CER.CAPACITOR 0.33 16V CER.CAPACITOR 10 25V CA52 NEH91EM-106X E.CAPACITOR 10 25V CA52				1
C449 NCF31CZ-10AX CER_CAPACITOR 0.33 16V C450 NCF31CZ-304X ECAPACITOR 10 25V C451 NEH91EM-106X ECAPACITOR 10 25V C452 NEH91EM-106X ECAPACITOR 10 25V C453 NEH91EM-106X ECAPACITOR 10 25V C454 NCF31CZ-104X CER_CAPACITOR 10 25V C455 NEH91EM-106X ECAPACITOR 10 25V C456 NCF31CZ-104X CER_CAPACITOR 10 25V C702 NCS31H-101X CER_CAPACITOR 4.7 16V C703 NSE31H-101X CAPACITOR 4.7 25V C704 NBE21EM-474X TAN.CAPACITOR 4.7 25V C705 NSS31H-101X TAN.CAPACITOR 0.47 25V C706 NCS31H-101X TAN.CAPACITOR 0.47 25V C708 NSS31H-101X TAN.CAPACITOR 10 16V C709 NCF31CZ-104X TAN.CAPACITOR 10 16V C709 NCF31CZ-104X CER_CAPACITOR 10 16V C710 NBE41CM-106X TAN.CAPACITOR 22 25V C710 NCF31CZ-104X CER_CAPACITOR 0.1 16V C711 NBE41CM-106X TAN.CAPACITOR 22 25V C716 NSE61EM-226X TAN.CAPACITOR 0.1 16V C717 NCF31CZ-104X CER_CAPACITOR 0.1 16V C718 NBE21EM-474X TAN.CAPACITOR 22 25V C719 NBE201M-475X TAN.CAPACITOR 22 25V C719 NBE201M-475X TAN.CAPACITOR 0.1 16V C710 NBE41CM-106X TAN.CAP				1
C450 NCF31CZ-394X C451 NEH91EM-106X E.CAPACITOR 10 25V C452 NEH91EM-106X E.CAPACITOR 10 25V E.CAPACITOR 10 16V E.CAPACITOR 10 1				10,,
C452 NEH91EM-106X C453 NEH91EM-106X C454 NCF31CZ-104X C701 NBEZ1CM-475X C701 NBEZ1CM-475X C702 NCS31HJ-101X C703 NBE41EM-475X C703 NBE41EM-475X C704 NBEZ1CM-475X C705 NBE41EM-475X C706 NCS31HJ-101X C706 NCS31HJ-101X C707 NBEB1EM-226X C708 NBE81EM-226X C709 NCF31CZ-104X C709 NCF31CZ-104X C709 NCF31CZ-104X C709 NCF31CZ-104X C710 NBE31EM-226X C709 NCF31CZ-104X C710 NBE31EM-226X C710 NBE31EM-226X C709 NCF31CZ-104X C711 NCF31CZ-104X C712 NCF31CZ-104X C712 NCF31CZ-104X C713 NBE31EM-226X C716 NBE31EM-226X C716 NBE31EM-226X C717 NCF31CZ-104X C718 NBE21EM-474X C718 NBE21EM-474X C718 NBE21EM-474X C719 NBE20M-475X C719 NBE30M-475X C719 NBE30M-475X C719 NBE30M-475X C719 NBE30M-475X C719 NBE30M-475X C719 NBC31CZ-104X C718 NBC31CZ-104X C719 NBC31CZ-104X C710 NGT31CZ-104X				1011
C452 NEH91EM-106X E.CAPACITOR 10 25V C454 NCF31CZ-104X C.CAPACITOR 10 25V C707 NBE21CM-475X TAN.CAPACITOR 0.1 16V C702 NCS31HJ-101X CER.CAPACITOR 1.7 16V C703 NBE41CM-406X TAN.CAPACITOR 4.7 25V C705 NBE31EM-428X TAN.CAPACITOR 0.47 25V C706 NCS31HJ-101X CER.CAPACITOR 0.47 25V C707 NBE81EM-228X TAN.CAPACITOR 100p 50V C708 NBE81EM-228X TAN.CAPACITOR 22 25V C709 NBE81EM-228X TAN.CAPACITOR 22 25V C710 NBE41CM-126X CER.CAPACITOR 0.1 16V C712 NCF31CZ-104X CER.CAPACITOR 0.1 16V C715 NBE61EM-226X TAN.CAPACITOR 22 25V C716 NBE61EM-226X TAN.CAPACITOR 0.1 16V C717	C450			1
C453 NEH91EM-106X E.CAPACITOR 10 25V	C451	NEH91EM-106X		
C454 NCF31CZ-104X C701 NBE21CM-475X TAN.CAPACITOR 100p 50V C703 NBE41EM-475X TAN.CAPACITOR 100p 50V C703 NBE41EM-475X TAN.CAPACITOR 100p 50V C703 NBE41EM-473X TAN.CAPACITOR 10 10p 50V C705 NBE61EM-226X TAN.CAPACITOR 10 16V C706 NCS31H-101X CER.CAPACITOR 10 16V C706 NCS31H-101X CER.CAPACITOR 10 16V C707 NBE61EM-226X TAN.CAPACITOR 22 25V C709 NCF31CZ-104X CER.CAPACITOR 22 25V C709 NCF31CZ-104X CER.CAPACITOR 0.1 16V C712 NGE61EM-226X TAN.CAPACITOR 22 25V C712 NCF31CZ-104X CER.CAPACITOR 0.1 16V C712 NGE61EM-226X TAN.CAPACITOR 0.1 16V C715 NBE61EM-226X TAN.CAPACITOR 0.1 16V C716 NBE61EM-226X TAN.CAPACITOR 0.1 16V C716 NBE61EM-226X TAN.CAPACITOR 0.1 16V C717 NCF31CZ-104X CER.CAPACITOR 0.1 16V C718 NBE21EM-474X TAN.CAPACITOR 0.1 16V NGE31CZ-104X CER.CAPACITOR 0.1 16V NGE31CZ-104X CE	C452	NEH91EM-106X	E.CAPACITOR	10 25V
TAIL CAPACITOR	C453	NEH91EM-106X	E.CAPACITOR	10 25V
TAIL CAPACITOR				
C702 NCS31H-101X C703 NBE41EM-475X TAN.CAPACITOR 100p 50V TAN.CAPACITOR 120p 16V 16V TAN.CAPACITOR 120p 1	C454	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C702	C701	NBE21CM-475X	TAN.CAPACITOR	4.7 16V
C703		NCS31HJ-101X	CER.CAPACITOR	100p 50V
C706				
C705 NBE41CM-106X TAN CAPACITOR 100 50V 100C 100C				
CP06				1
TAN.CAPACITOR C22 C5V				117
C708 NBE81EM-228X TAN.CAPACITOR C22 25V				
C709 NCF31CZ-104X CER.CAPACITOR 0.1 16V C710 NBE41CM-106X CF1.CZ-104X CER.CAPACITOR 10 16V C712 NCF31CZ-104X CER.CAPACITOR 0.1 16V C715 NBE61EM-226X TAN.CAPACITOR 22 25V C716 NBE61EM-226X TAN.CAPACITOR 22 25V C717 NCF31CZ-104X CER.CAPACITOR 0.1 16V C718 NBE21EM-474X TAN.CAPACITOR 0.47 25V C719 NBE21CM-475X TAN.CAPACITOR 0.47 25V C719 NBE21CM-475X TAN.CAPACITOR 0.1 16V C723 NCF31CZ-104X CER.CAPACITOR 0.1 16V C724 NAT311Z-400RZ TRIM.CAPACITOR 0.1 16V C725 NCF31CZ-104X CER.CAPACITOR 0.1 16V C726 NBE21EM-471X COIL 100H C727 NCF31CZ-104X CER.CAPACITOR 0.1 16V C728 NCF31CZ-104X CER.CAPACITOR 0.1 16V C729 NGE21EM-471X COIL 100H C720 NCL124J-101X COIL 100H C720 NCL124J-101X COIL 100H C720 NCL114K-10X COIL 100H C720 NCL114K-10X COIL 100H C720 NCL114K-10X COIL 100H C720 NCL114K-10X COIL 100H C730 NCL114K-10X COIL 100H C740 NCL114K-10X COIL 100H C750 NCL114K-10X COIL 100H C770 NCF31CZ-104X CER.CAPACITOR 0.1 100H C771 NCF31CZ-104X CER.CAPACITOR 0.1 100H C772 NCF31CZ-104X CER.CAPACITOR 0.1 100H C773 NCF31CZ-104X CER.CAPACITOR 0.1 16V C774 NCF31CZ-104X CER.CAPACITOR 0.1 16V C775 NCF31CZ-104X CER.CAPACITOR 0.1 16V C776 NBE61EM-225V C776 NBE61EM-225V C777 NCF31CZ-104X CER.CAPACITOR 0.1 16V C778 NBE20M-475X CER.CAPACITOR 0.1 16V C779 NBE20M-475X TAN.CAPACITOR 0.4 TO 16V C779 NBE20M-475X TAN.CAPACITOR 0.4 TO 16V C770 NBE20M-475X TAN.CAPACITOR 0.4 TO 16V C770 NCF31CZ-104X CER.CAPACITOR 0.1 16V C771 NCF31CZ-104X CER.CAPACITOR 0.1 16V C771 NCF31CZ-104X CER.CAPACITOR 0.1 16V C772 NCF31CZ-104X CER.CAPACITOR 0.1 16V C773 NBE20M-475X CER.CAPACITOR 0.1 16V C774 NCF31CZ-104X CER.CAPACITOR 0.1 16V C775 NBE20M-475X CER.CAPACITOR 0.1 16V C776 NBE20M-475X CER.CAPACITOR 0.1 16V C777 NCF31CZ-104X CER.CAPACITOR 0.1 16V C779 NBE20M-475X CER.CAPACITOR 0.1 16V C719 NBE20M-475X CER.CAPACITOR 0.1 16V C710				
C710 NBE41CM-106X CF.CAPACITOR C715 NBE61EM-226X TAN.CAPACITOR D.1 16V C715 NBE61EM-226X TAN.CAPACITOR 22 25V C717 NCF31CZ-104X CER.CAPACITOR 22 25V C717 NCF31CZ-104X CER.CAPACITOR D.1 16V TAN.CAPACITOR D.1 16V TAN.CAPAC				
C712	C709	NCF31CZ-104X	CER.CAPACITOR	0.1
C712				1001
C716				115
C716				1 = 1 - 1
C717 NCF31CZ-104X CER.CAPACITOR O.1 16V C718 NBE21EM-474X TAN.CAPACITOR O.47 25V TAN.CAPACITOR O.47 25V C723 NCF31CZ-104X CER.CAPACITOR O.1 16V	C715	NBE61EM-226X	TAN.CAPACITOR	22 25V
C718	C716	NBE61EM-226X	TAN.CAPACITOR	22 25V
C718				[0.1 16V
C719				
VC401 NAT3112-400RZ				4.7 6.3V
VC401 NAT3112-400RZ				
L1 NQL124J-101X COIL 100uH L2 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L401 NQL114K-100X COIL 10uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L400 NQL114K-100X COIL 10uH L401 NQL114K-100X COIL 10uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L401 NQ	C/23	NOF3102-104X	CEN.OAFACITOR	100
L1 NQL124J-101X COIL 100uH L2 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L401 NQL114K-100X COIL 10uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L400 NQL114K-100X COIL 10uH L401 NQL114K-100X COIL 10uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L401 NQ				
L1 NQL124J-101X COIL 100uH L2 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L4 NQL124J-101X COIL 100uH L401 NQL114K-100X COIL 100uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L409 NQL114K-100X COIL 10uH L400 NQL114K-100X COIL 10uH L401 NQL114K-100X COIL 10uH L402 NQL114K-100X COIL 10uH L403 NQL114K-100X COIL 10uH L404 NQL114K-100X COIL 10uH L405 NQL114K-100X COIL 10uH L406 NQL114K-100X COIL 10uH L407 NQL114K-100X COIL 10uH L408 NQL114K-100X COIL 10uH L409 N	VC401	NAT3112-400BZ	TRIM.CAPACITOR	40p SUB CLOCK
100uH 100u	VC-01	147.10112 400112	11	1.00
100uH 100u				
100uH 100u	1.1	NOL 124 L101Y	COIL	100uH
NQL124J-101X			*	
L4				
L209				
L401				
L402				1
L403	L401	NQL114K-100X	COIL	
L404	L402	NQL114K-100X	COIL	10uH
LC201	L403	NQL114K-100X	COIL	10uH
LC201			COIL	10uH
LC201				1
LC202				
LC202				
LC203	LC201	PGZ01972Z	LC FILTER	
LC203	LC202	PGZ01972Z	LC FILTER	
X401				
X401 PGZ02200-001 CRYSTAL 4.192MHz X402 SSV2318-001Z THERMISTOR 1.5k TH401 NAD0002-152X THERMISTOR 1.5k S1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SWITCH AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD1 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUDIO MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH LIGHT S404 QSS4E12-S02 SLIDE SWITCH SHIFT S405 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH SHIFT S409				
X402 SSV2318-001Z CRYSTAL 32.756MHz TH401 NAD0002-152X THERMISTOR 1.5k S1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SWITCH AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S401 QSS4E12-S02 SLIDE SWITCH AUDIO MONITOR S402 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S403 QSS4E12-S02 SLIDE SWITCH FREE/REC S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH PRESET S41			20112121	
X402 SSV2318-001Z CRYSTAL 32.756MHz TH401 NAD0002-152X THERMISTOR 1.5k S1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SWITCH AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S401 QSS4E12-S02 SLIDE SWITCH AUDIO MONITOR S402 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S403 QSS4E12-S02 SLIDE SWITCH FREE/REC S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH PRESET S41				
TH401 NAD0002-152X	X401	PGZ02200-001	CRYSTAL	4.192MHz
TH401 NAD0002-152X	X402	SSV2318-001Z	CRYSTAL	32.756MHz
\$1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM AUD2 +4/-60 SEL SWITCH S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUT0/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUT0/MANU AUD1 QSS4E12-S02 SLIDE SWITCH AUD1 AUD1 MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET FREE/REC TC DISP \$404 QSS4E12-S02 SLIDE SWITCH TC DISP \$405 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL RESET S410 PGZ01249 TACT SWITCH RESET UB/TC/CTL RESET TACT SWITCH RESET MENU	71.0-			
\$1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM AUD2 +4/-60 SEL SWITCH S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUT0/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUT0/MANU AUD1 QSS4E12-S02 SLIDE SWITCH AUD1 AUD1 MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET FREE/REC TC DISP \$404 QSS4E12-S02 SLIDE SWITCH TC DISP \$405 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL RESET S410 PGZ01249 TACT SWITCH RESET UB/TC/CTL RESET TACT SWITCH RESET MENU				
\$1 QSS1A42-L01 SLIDE SWITCH AUD1 +4/-60 SEL S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM AUD2 +4/-60 SEL SWITCH S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUT0/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUT0/MANU AUD1 QSS4E12-S02 SLIDE SWITCH AUD1 AUD1 MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET FREE/REC TC DISP \$404 QSS4E12-S02 SLIDE SWITCH TC DISP \$405 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL RESET S410 PGZ01249 TACT SWITCH RESET UB/TC/CTL RESET TACT SWITCH RESET MENU	TH401	NAD0002-152X	THERMISTOR	1.5k
S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUD1 AUTO/MANU S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S410 PGZ01249 TACT SWITCH RESET				
S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUD1 AUTO/MANU S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S410 PGZ01249 TACT SWITCH RESET				
S2 QSS1A42-L01 SLIDE SWITCH AUD2 +4/-60 SEL S3 QSW0457-001 SLIDE SW AUD1 LINE/CAM S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUD1 AUTO/MANU S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S410 PGZ01249 TACT SWITCH RESET	S1	QSS1A42-I 01	SLIDE SWITCH	AUD1 +4/-60 SEL
\$\ \text{S3} \text{QSV0457-001} \\ \text{SLIDE SW} \\ \text{SWITCH} \\ \text{SUDID SWITCH} \\ \\ \text{SUDID SWITCH} \\ \\ SU				
S4 SCV2730-001 SLIDE SWITCH AUD2 LINE/CA/AU S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUDIO MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH TREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH HOLD S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH RESET S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH RESET				
S5 QSS4E12-S02 SLIDE SWITCH AUD1 AUTO/MANU S6 QSS4E12-S02 SLIDE SWITCH AUD2 AUTO/MANU S201 PGZ00470-02 SLIDE SWITCH AUD10 MONITOR S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH TREE/REC S403 QSS4E12-S02 SLIDE SWITCH LIGHT S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH SHIFT S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU				
S6 QSS4E12-S02 PGZ00470-02 S401 SLIDE SWITCH SLIDE SWITCH SLIDE SWITCH SLIDE SWITCH SUBJECT AUD2 AUTO/MANU AUDIO MONITOR REGEN/ PRESET FREE/REC TC DISP S402 QSS4E12-S02 QSS4E12-S02 SLIDE SWITCH SLIDE SWITCH TACT SWITCH SUBJECT TC DISP S404 QSS4E12-S02 QSS4E12-S02 QSS4E12-S02 SLIDE SWITCH TACT SWITCH SUBJECT LIGHT HOLD SHIFT TACT SWITCH SHIFT TACT SWITCH ADVANCE PRESET SUBJECT S408 PGZ01249 PGZ01249 QSCV2584-001 QSCV2584-001 SLIDE SWITCH SUBJECT PRESET QB/TC/CTL RESET MENU S410 PGZ01249 PGZ01249 TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH RESET MENU				
S201				
S401 QSS4E12-S02 SLIDE SWITCH REGEN/ PRESET S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU			1	
S402 QSS4E12-S02 SLIDE SWITCH FREE/REC S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU				
S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU	S401	QSS4E12-S02		REGEN/ PRESET
S403 QSS4E12-S02 SLIDE SWITCH TC DISP S404 QSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU	S402	QSS4E12-S02	SLIDE SWITCH	FREE/REC
S404 OSS4E12-S02 SLIDE SWITCH LIGHT S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU			SLIDE SWITCH	TC DISP
S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU				
S405 PGZ01249 TACT SWITCH HOLD S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU	S404	QSS4E12-S02	SLIDE SWITCH	LIGHT
S406 PGZ01249 TACT SWITCH SHIFT S407 PGZ01249 TACT SWITCH ADVANCE S408 PGZ01249 TACT SWITCH PRESET S409 SCV2584-001 SLIDE SWITCH UB/TC/CTL S410 PGZ01249 TACT SWITCH RESET S411 PGZ01249 TACT SWITCH MENU				
\$407 PGZ01249 TACT SWITCH ADVANCE PRESET UB/TC/CTL SA10 PGZ01249 TACT SWITCH SLIDE SWITCH TACT SWITCH MENU				
\$408 PGZ01249 TACT SWITCH PRESET UB/TC/CTL TACT SWITCH SLIDE SWITCH TACT SWITCH MENU				
S409 SCV2584-001 SLIDE SWITCH TACT SWITCH RESET MENU				
S410 PGZ01249 TACT SWITCH RESET MENU	-			
S411 PGZ01249 TACT SWITCH MENU	-			
				(
CN1 SSV2637-L03 CONNECTOR 3PIN	S411	PGZ01249	TACT SWITCH	MENU
CN1 SSV2637-L03 CONNECTOR 3PIN				
CINT 55V2637-L03 CONNECTOR 3PIN	C111	CC/ /05== : ==	COMMISSION	2DIN
	CN1	55V2637-L03	CONNECTOR	STIN

Symbol No.	Part No.	Part Name	Description
	CC//2627 02	CONNECTOR	3PIN
CN2	SSV2637-L03		
CN3	SSV2637-L08	CONNECTOR	8PIN
CN4	PGZ01932-015Z	CONNECTOR	15PIN
CN5	PGZ01932-008Z	CONNECTOR	8PIN
CN6	SSV2637-L02	CONNECTOR	2PIN
CN7	PGZ01932-010Z	CONNECTOR	10PIN
			(
CN8	SCV2596-030W	CONNECTOR	30PIN
CN9	SSV2637-L10	CONNECTOR	10PIN
CN401	SSV2637-L02	CONNECTOR	2PIN
0.1.0.			
1			!
TP	SSV1096-001	TEST POINT	TP1-TP492
"		1	
DA401	QLD0010-001	LCD	
		,	
K202	PGZ00627Z	FERRATE BEADS	
K204	PGZ00627Z	FERRATE BEADS	
K205	PGZ00627Z	FERRATE BEADS	
K206	PGZ00627Z	FERRATE BEADS	
K207	PGZ00627Z	FERRATE BEADS	
K401	PGZ00627Z	FERRATE BEADS	ł l
K402	PGZ00627Z	FERRATE BEADS	j l
K403	PGZ00627Z	FERRATE BEADS	
K404	PGZ00627Z	FERRATE BEADS]
K405	PGZ00627Z	FERRATE BEADS	
N405	1 320002/2	LULATE BEADS	
1			Į l
K406	PGZ00627Z	FERRATE BEADS]
K407	PGZ00627Z	FERRATE BEADS	
1		. 3	[
1			
1			
T301	NQR0185-001X	BIAS OSC COIL	
1			
1	Į.		
			TDOOL TD 100
TB	PGZ02228	EARTH LUG	TB201-TB403
1	1		1
1			
1		ł	
1		1	i
1		\]
1			
1		i	
1		1	i
1			
1	1		}
1			1
1			
1			
1			
1			
1			
1			
1		1	
1	1	İ	· ·
1		1	
1		1	
1		1	
1		1	
1		1	
1		1	
1		1	
1		1	
1		1	l i
1		1]
1		1	
1	1		
1]
1		1	
			1
1			
1		1	
1			
1	1	1	
1			
1	1	1]
1) i
1			Į l
1		1	!
1			
1			
1		1	
1			ļ
1]	
1			1
1	1	1	ſ

6.2 PV PROCESS BOARD ASSEMBLY PARTS LIST 0 2 SLK1069-01A(for U. Ver.)/SLK1069-B0A(for E. Ver.) 0 2

Symbol No.	Part No.	Part Name	Description	
IC1	TC4094BF-X	I.C.(M)	TOSHIBA	
IC2	TC4094BF-X	I.C.(M)	TOSHIBA	
IC3		I.C.(M)	TEXAS	
IC5		I.C.(M)	TEXAS	
IC6	SN74CBT3245PW-X		TEXAS	
	JCL0029	I.C.(M)	JVC	
IC7			JVC	
IC8	JCL0030	I.C.(M)	JVC	
IC9	JCL0028	I.C.(M)		
IC10		I.C.(M)	TEXAS	
IC11	SN74CBT3245PW-X	I.C.(M)	TEXAS	
IC12	S-81240PG-PJ-X	I.C.(M)	SEIKO	
IC13	TC7S04F-X	I.C.(M)	TOSHIBA	
IC14	EPM032VT-20-001	I.C.(M)	ALTERA	
IC15	DS26C32ATM-X	I.C.(M)	NATIONAL SEMICO	
	SN74CBT3384PW-X		TEXAS	
IC16			TOSHIBA	
IC17	TC4S66F-X	I.C.(M)		(U)
IC18	UPD78P58YGC-200		JVC	
IC18	UPD78P58YGC-400	I.C.(M)	JVC	(E)
IC19	TC7W126FU-X	I.C.(M)	TOSHIBA	
IC20	S-8054HN-CB-X	I.C.(M)	SEIKO	
1004	DC00C021TM V	LC (M)	NATIONAL SEMICO	
IC21	DS90C031TM-X	I.C.(M)	TOSHIBA	
IC22	TC74HCT541AF-X	I.C.(M)		
IC23	S-81240PG-PJ-X	I.C.(M)	SEIKO	
IC24	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO	
IC25	TC4S81F-W	I.C.(M)	TOSHIBA	
IC26	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO	
IC27	TC7S86F	I.C.(M)	TOSHIBA	
	TC74VHC541F-X	I.C.(M)	TOSHIBA	
IC28			NEC	
IC29	UPC4082G2-X	I.C.(M)		
IC30	TC528267FT-70-X	I.C.(M)	TOSHIBA	
IC31	SN74CBT3384PW-X	I.C.(M)	TEXAS	
IC33	TC528267FT-70-X	I.C.(M)	TOSHIBA	
	SN74CBT3384PW->		TEXAS	
IC34			TOSHIBA	
IC36	TC74HCT541AF-X	I.C.(M)		
IC37	TC74HCT541AF-X	I.C.(M)	TOSHIBA	
IC41	L7A1433	I.C.(M)	LSI LOGIC	
IC42	UPD42S4260ALG5	I.C.(M)	NEC	
IC43	L7A1433	I.C.(M)	LSI LOGIC	
1C44	UPD42S4260ALG5		NEC	
IC44	MN67371F	I.C.(M)	MATSUSHITA	
	0.0100400.50	1.0 (0.4)	SEIKO	
1C46	S-81224PG-PX-X	1.C.(M)		
IC47	MN67371F	I.C.(M)	MATSUSHITA	
IC48	S-81224PG-PX-X	I.C.(M)	SEIKO	
IC49	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO	
IC51	TC74VHC244F-X	I.C.(M)	TOSHIBA	
1C55	UPD489001	I.C.(M)	NEC	
		1 ' '	NEC	
IC56	UPD489001	I.C.(M)		
IC57	UPD489001	I.C.(M)	NEC	
1C58	UPD489001	1.C.(M)	NEC	
IC59	DS90C031TM-X	I.C.(M)	NATIONAL SEMICO	
IC60	DS90C031TM-X	1.C.(M)	NATIONAL SEMICO	
	TC74VHC126F-X	I.C.(M)	TOSHIBA	
IC61			TOSHIBA	
IC62	TC74VHC74F-X	I.C.(M)		
IC66	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO	
IC67	DS90C032TM-X	I.C.(M)	NATIONAL SEMICO	
IC301	UPC358G2-X	I.C.(M)	NEC	
IC302		I.C.(M)	TOSHIBA	
		I.C.(M)	TOSHIBA	
IC303			- ·	
IC304		I.C.(M)	FUJITSU MITSUBISHI	
IC351	M65401FP	1.0.(101)	WII TOODIOI-II	
IC352	M65401FP	I.C.(M)	MITSUBISHI	
IC353		I.C.(M)	MITSUBISHI	
		I.C.(M)	TOSHIBA	
IC354			TOSHIBA	
IC355		1.C.(M)		
IC356		I.C.(M)	TOSHIBA	
IC357	S-81224PG-PX-X	I.C.(M)	SEIKO	
IC503		I.C.(M)	TOSHIBA	
		I.C.(M)	TOSHIBA	
IC504			TOSHIBA	
IC514		I.C.(M) I.C.(M)	TOSHIBA	
10015	7 1079V110244F-X	1.0.(141)		
		TRANSISTOR	MATSUSHITA	
Q1	XN4509-W			

Symbol No.	Part No.	Part Name	Description	
D1	DAN202U-X	DIODE	ROHM	\neg
D3	1SS133	DIODE	ROHM	
D11	NRSA63 1472Y	M.G.RESISTOR	4.7k 1/16W	
R11 R12	NRSA63J-472X NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	1
R13	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R14	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R15	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R16	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	i
R17	NRSA63J-103X	M.G.RESISTOR	10k 1/16W 100k 1/16W	
R18	NRSA63J-104X	M.G.RESISTOR M.G.RESISTOR	100k 1/16W	
R19 R20	NRSA63J-104X NRSA63J-104X	M.G.RESISTOR	100k 1/16W	
R21	NRSA63J-224X	M.G.RESISTOR	220k 1/16W	
R22	NRSA63J-102X	M.G.RESISTOR	1k 1/16W 10k 1/16W	
R23	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W 330k 1/16W	
R25 R27	NRSA63J-334X NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R28	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R29	NRSA63J-681X	M.G.RESISTOR	680 1/16W	
R30	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R31	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R32	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R34 R35	NRSA63J-330X NRSA63J-154X	M.G.RESISTOR M.G.RESISTOR	33 1/16W 150k 1/16W	
R36	NRSA63J-154X	M.G.RESISTOR	150k 1/16W	
R37	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R38	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R39	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R40	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 100 1/16W	
R41 R42	NRSA63J-101X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W	
R43	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R44	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R45	NRSA63J-101X	M.G.RESISTOR	100 1/16W 0 1/16W	
R46	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0 1/16W	
R47 R48	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R49	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R50	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R51	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R52 R53	NRSA63J-332X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	3.3k 1/16W 100 1/16W	
R54	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R55	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R56	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R57	NRSA63J-101X	M.G.RESISTOR	100 1/16W 100 1/16W	
R58	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100 1/16W 100 1/16W	
R59 R60	NRSA63J-101X	M.G.RESISTOR	3.3k 1/16W	
R61	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R62	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R63	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R65	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 0 1/16W	
R66 R67	NRSA63J-0R0X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	2.2k 1/16W	
R67	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R69	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R70	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	
R71	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	
R72	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W 120 1/16W	
R73 R74	NRSA63J-121X NRSA63J-121X	M.G.RESISTOR M.G.RESISTOR	120 1/16W	
R75	NRSA63J-121X	M.G.RESISTOR	120 1/16W	
R76	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R77	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R78	NRSA63J-101X	M.G.RESISTOR	100 1/16W 0 1/16W	
R79	NRSA63J-0R0X NRSA63J-105X	M.G.RESISTOR M.G.RESISTOR	1M 1/16W	
R80 R81	NRSA63J-105X NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R82	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R84	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R85	NRSA63J-101X	M.G.RESISTOR	100 1/16W	

Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name		Description
R86	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R191	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R87	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R192	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R88	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R195	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R89	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R196	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R90	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R197	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R91	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R198	NRSA63J-0R0X	M.G.RESISTOR	lo	1/16W
R92	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R199	NRSA63J-0R0X	M.G.RESISTOR	lo	1/16W
		M.G.RESISTOR	220	1/16W	1 11100	1110/1000 0110/1		ľ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R93	NRSA63J-221X		220	1/16VV	R200	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R94	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R201	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R95	NRSA63J-221X	M.G.RESISTOR	220	1/1000	R202	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W
		NA O DECICEO	400	1/1/01/01		NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R97	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R203			33k	1/16W
R98	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R204	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R99	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R205	NRSA63J-333X	M.G.RESISTOR		
R100	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R206	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R102	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R207	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R103	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R208	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R104	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R209	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R105	NRSA63J-101X	M.G.RESISTOR	100	1/16W					
R109	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R210	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R111	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R211	NRSA63J-101X	M.G.RESISTOR	100	1/16W
					R216	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R112	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R217	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R115	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R218	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R116	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R219	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R117	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R220	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R117	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R221	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R119	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R222	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R119	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R224	NRSA63J-101X	M.G.RESISTOR	100	1/16W
		M.G.RESISTOR	220	1/16W	11224	(41107-000-10174	W.G.M.EOIOTON	1,00	1,1011
R121	NRSA63J-221X				R225	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R122	NRSA63J-221X	M.G.RESISTOR	220	1/16W		NRSA63J-101X	M.G.RESISTOR	100	1/16W
R123	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R226			100	1/16W
_				4 (4 (0) 4 (R227	NRSA63J-101X	M.G.RESISTOR		
R124	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R228	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R125	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R229	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R129	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R230	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R132	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R231	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R133	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R232	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R135	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R233	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R136	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R234	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R137	NRSA63J-101X	M.G.RESISTOR	100	1/16W					
R138	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R235	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R139	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R236	NRSA63J-101X	M.G.RESISTOR	100	1/16W
ŀ					R237	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R140	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R238	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R141	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R239	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R143	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R240	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R145	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R242	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R146	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R243	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R147	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R244	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R148	NRSA63J-101X	M.G.RESISTOR	100	1/16W	1				
R149	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R245	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R150	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R246	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R150	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R247	NRSA63J-101X	M.G.RESISTOR	100	1/16W
nio!	141107000-1017	.vi.q.i.L0/01/011	, 55	171044	R248	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R152	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R249	NRSA63J-101X	M.G.RESISTOR	100	1/16W
	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R250	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R153			100	1/16W	R251	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R154	NRSA63J-101X	M.G.RESISTOR			R252	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R155	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R254	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R156	NRSA63J-101X	M.G.RESISTOR	100	1/16W				5.6k	1/16W
R157	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R255	NRSA63J-562X	M.G.RESISTOR	J.OK	1/1044
R158	NRSA63J-101X	M.G.RESISTOR	100	1/16W	0000	NOCACO LOGOV	M C DECISEOD		4 /4 (5) 8/
R160	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R256	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R161	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R257	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R162	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R277	NRSA63J-101X	M.G.RESISTOR	100	1/16W
					R278	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R163	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R279	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R164	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R280	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R165	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R281	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R166	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R282	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R167	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R283	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R169	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R284	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R181	NRSA63J-OROX	M.G.RESISTOR	0	1/16W					
R182	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W	R287	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R183	NRSA63J-331X	M.G.RESISTOR	330	1/16W	R288	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R184	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R289	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
11104	14113/4033-472/	W.G.NEGIOTOTT	7.72	., 1011	R290	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R186	NDC ACAL ECOV	M.G.RESISTOR	5.6k	1/16W	R295	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
	NRSA63J-562X		1	1/16W	R298	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R189	NRSA63J-0R0X	M.G.RESISTOR	0		R299	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R190	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	1 11299	AND-CONCUE	W.G.NESISTON		171044

Sv	mbol	Part No.	Part Name	De	scription	Symbol	Part No.	Part Name	De	escription
	No.	Part No.				No.		OFF CARACITOR	47-	50V
1	R301	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	C26	NDC31HJ-470X	CER.CAPACITOR	47p 0.01	50V
	302	NRSA63J-821X	M.G.RESISTOR	820	1/16W	C27	NCB31HK-103X	CER.CAPACITOR	1	16V
1	R303	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	C28	NCF21CZ-105X	CER.CAPACITOR		50V
						C29	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	304	NRSA63J-154X	M.G.RESISTOR	150k	1/16W	C30	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	305	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	C31	NDC31HJ-120X	CER.CAPACITOR	12p	500
	306	NRSA63J-102X	M.G.RESISTOR	1k	1/16W			OCD OADAGITOD	0.000	25V
	307	NRSA63J-563X	M.G.RESISTOR	56k	1/16W	C41	NCB31EK-223X	CER.CAPACITOR	0.022	25V 25V
1	308	NRSA63J-124X	M.G.RESISTOR	120k	1/16W	C42	NCB31EK-223X	CER.CAPACITOR	0.022	25V 25V
1	309	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	C43	NCB31EK-223X	CER.CAPACITOR	0.022	50V
	R310	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	C46	NDC31HJ-180X	CER.CAPACITOR	18p	50V
	R311	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C49	NCB31HK-103X	CER.CAPACITOR	0.01	
	R316	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C50	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	R322	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C51	NCB31EK-223X	CER.CAPACITOR	0.022	25V
						C52	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R351	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C53	NCF21CZ-105X	CER.CAPACITOR	1	16V
	R352	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C54	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	R353	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W				1	F0\ (
	R354	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W	C55	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	R355	NRSA63J-561X	M.G.RESISTOR	560	1/16W	C56	NBE21AM-106X	TAN.CAPACITOR	10	10V
	R356	NRSA63J-391X	M.G.RESISTOR	390	1/16W	C59	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R357	NRSA63J-823X	M.G.RESISTOR	82k	1/16W	C63	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R358	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W	C65	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R359	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	C66	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R360	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C67	NCB31EK-223X	CER.CAPACITOR	0.022	25V
1	n300	N13A033-103A	W.G.HEOIOTON	1.011	.,	C68	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R361	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C69	NCB31EK-223X	CER.CAPACITOR	0.022	25V
- 1	R387	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C70	NCB31EK-223X	CER.CAPACITOR	0.022	25V
- [NRSA63J-103X	M.G.RESISTOR	100	1/16W				1	
ı	R388	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C71	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R389		M.G.RESISTOR	100	1/16W	C72	NCB31EK-223X	CER.CAPACITOR	0.022	25V
-	R390	NRSA63J-101X		100	1/16W	C73	NCB31EK-223X	CER.CAPACITOR	0.022	25V
-	R391	NRSA63J-101X	M.G.RESISTOR	0	1/16W	C74	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R392	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W	C75	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R393	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C76	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R394	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W	C77	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R395	NRSA63J-0R0X	M.G.RESISTOR	ľ	1/1000	C82	NCB31EK-223X	CER.CAPACITOR	0.022	25V
ı		10010010001	NA C DECICTOR	0	1/16W	C83	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R401	NRSA63J-0R0X	M.G.RESISTOR		1/16W	C84	NCB31EK-223X	CER.CAPACITOR	0.022	25V
1	R403	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	1 000	THOUGH EN 220X	OZINIO II 7 IO II 7		
	R404	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C85	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R408	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C86	NCB31EK-223X	CER.CAPACITOR	0.022	25V
ı	R409	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C87	NCB31EK-223X	CER.CAPACITOR	0.022	25V
-1	R410	NRSA63J-0R0X	M.G.RESISTOR	1 -	1/16W	C88	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R411	NRSA63J-104X	M.G.RESISTOR	100k 0	1/16W	C89	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R412	NRSA63J-0R0X	M.G.RESISTOR	1M	1/16W	C90	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R508	NRSA63J-105X	M.G.RESISTOR	1	1/16W	C91	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	R509	NRSA63J-472X	M.G.RESISTOR	4.7k	1/1044	C92	NCB31HK-103X	CER.CAPACITOR	0.01	50V
			NA O DECISION	41.	1/16\\/	C93	NCF21CZ-105X	CER.CAPACITOR	1	16V
	R511	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	C94	NBE40JM-106X	TAN.CAPACITOR	10	6.3V
	R512	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C94	INDEA03INI-100X	IAN.CAI ACITOII	1.0	0.01
	R515	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C95	NCB31HK-103X	CER.CAPACITOR	0.01	50V
- 1	R516	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W			CER.CAPACITOR	0.022	25V
				Ì		C96	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR	0.022	25V
- 1					501/	C97	NCB31EK-223A	CER.CAPACITOR	0.022	50V
	C1	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C98 C99	NCF21CZ-105X	CER.CAPACITOR	1	16V
	C2	NCB31HK-103X	CER.CAPACITOR	0.01	50V		NBE40JM-106X	TAN.CAPACITOR	10	6.3V
- 1	C3	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C100		CER.CAPACITOR	0.01	50V
	C4	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C101	NCB31HK-103X	CER.CAPACITOR	0.022	25V
- 1	C5	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C105	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	C6	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C109	NCB31EK-223X		0.022	25V
- 1	C7	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C112	NCB31EK-223X	CER.CAPACITOR	0.022	257
	C8	NCB31EK-223X	CER.CAPACITOR	0.022	25V		11000151100011	OFF CARACITOR	0.033	25V
	C9	NCB31EK-223X	CER.CAPACITOR	0.022	25V	C113	NCB31EK-223X	CER.CAPACITOR	0.022	
	C10	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C114	NCB31EK-223X	CER.CAPACITOR	0.022	25V
						C115	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	C11	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C116	NCB31EK-223X	CER.CAPACITOR	0.022	25V
- 1	C13	NEH71AM-227X	E.CAPACITOR	220	10V	C117	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	C14	NEH71AM-227X	E.CAPACITOR	220	10V	C118	NCB31EK-223X	CER.CAPACITOR	0.022	25V
- 1	C15	NBE21AM-106X	TAN.CAPACITOR	10	10V	C119	NCB31EK-223X	CER.CAPACITOR	0.022	25V
- 1	C16	NCF21CZ-105X	CER.CAPACITOR	<u> </u> 1	16V	C120	NCB31EK-223X	CER.CAPACITOR	0.022	25V
Į	C17	NDC31HJ-7R0X	CER.CAPACITOR	7p	50V	C121	NCF21CZ-105X	CER.CAPACITOR	1	16V
	C18	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C122	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	C19	NCB31HK-103X	CER.CAPACITOR	0.01	50V					
	C20	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C123	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	UZU		CER.CAPACITOR	0.01	50V	C124	NCB31EK-223X	CER.CAPACITOR	0.022	25V
		NCB31HK-103X	CER.CAFACHOR							
	C21	NCB31HK-103X	CER.CAPACITOR			C133	NCB31EK-223X	CER.CAPACITOR	0.022	25V
	C21	NCB31HK-103X NBH21CM-105X	TAN.CAPACITOR	1	16V	C133 C301	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	C21 C22	NBH21CM-105X			16V 50V	C301 C302	NCF31CZ-104X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.1 0.01	16V 50V
	C21		TAN.CAPACITOR	1		C301	NCF31CZ-104X	CER.CAPACITOR	0.1	16V

Sym		Part No.	Part Name	Description
	305	NCF21CZ-105X	CER.CAPACITOR	1 16V
			CER.CAPACITOR	0.01 50V
	306	NCB31HK-103X		
C3	307	NCB31HK-103X	CER.CAPACITOR	0.01 50V
				501/
	308	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C3	309	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C3	310	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C3	311	NCF21CZ-105X	CER.CAPACITOR	1 16V
	312	NCF21CZ-105X	CER.CAPACITOR	1 16V
	313	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	314	NCF21CZ-105X	CER.CAPACITOR	1 16V
	351	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	352	NCB31HK-103X	CER.CAPACITOR	0.01 50V
			CER.CAPACITOR	0.01 50V
U.S	353	NCB31HK-103X	CER.CAPACITOR	0.01
۰.		NODO4LIK 400V	CER CARACITOR	0.01 50V
	354	NCB31HK-103X	CER.CAPACITOR	
	355	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	356	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C3	357	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C	358	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C	359	NBH21CM-105X	TAN.CAPACITOR	1 16V
	360	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	361	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	362	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	364	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
l ^{CC}	, O+	14DE-00M-100V	,AIT.OAI AOITOIT	0.07
_~	205	NDC31HI 100V	CER CARACITOR	18p 50V
	365	NDC31HJ-180X	CER.CAPACITOR	· - -
	366	NCB31HK-682X	CER.CAPACITOR	6800p 50V
	367	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
	368	NBH41CM-225X	TAN.CAPACITOR	2.2 16V
C	369	NBH41CM-225X	TAN.CAPACITOR	2.2 16V
1 03	370	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C2	371	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
	372	NCF21CZ-105X	CER.CAPACITOR	1 16V
	373	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	374	NDC31HJ-180X	CER.CAPACITOR	18p 50V
~	3/4	INDCS INSTITUT	CEN.CAI ACITON	l lob
L 00	375	NDC31HJ-180X	CER.CAPACITOR	18p 50V
			CER.CAPACITOR	0.01 50V
	376	NCB31HK-103X		1 * * * * * * * * * * * * * * * * * * *
	377	NCB31HK-103X	CER.CAPACITOR	1
	378	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	379	NCB31HK-103X	CER,CAPACITOR	0.01 50V
	380	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C3	381	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C	382	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C	386	NBE40JM-106X	TAN.CAPACITOR	10 6.3V
C	387	NCF21CZ-105X	CER.CAPACITOR	1 16V
l c:	388	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	389	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	390	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	391	NCB31HK-103X	CER.CAPACITOR	0.01 50V
				1
. ~	392	NCF21CZ-105X	CER.CAPACITOR	1.
	393	NCF21CZ-105X	CER.CAPACITOR	1.
	429	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	461	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	501	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C	504	NCB31HK-103X	CER.CAPACITOR	0.01 50V
				1
C	505	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	510	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	511	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	512	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	513	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	516		CER.CAPACITOR	0.01 50V
		NCB31HK-103X	1	
	517	NCB31HK-103X	CER.CAPACITOR	
	520	NCB31HK-103X	CER.CAPACITOR	0.01 50V
	521	NDC31HJ-270X	CER.CAPACITOR	27p 50V
C!	522	NDC31HJ-270X	CER.CAPACITOR	27p 50V
1				
				1
L	1	NQL024J-1R2X	COIL	1.2uH
L		NQL114K-101X	COIL	100uH
L3		NQL114K-101X	COIL	100uH
	3	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1.2uH
		NOLOGAL 1P2Y	I C'UII	
L4	4	NQL024J-1R2X	COIL	1
L4 L3	4 301	NQL114K-101X	COIL	100uH
L4 L3 L3	4 301 302	NQL114K-101X NQL114K-220X	COIL	100uH 22uH
L4 L3 L3	4 301 302 351	NQL114K-101X NQL114K-220X NQL114K-101X	COIL COIL COIL	100uH 22uH 100uH
14 13 13 13	4 301 302	NQL114K-101X NQL114K-220X	COIL	100uH 22uH

Symbol No.	Part No.	Part Name	Description
LC2	PGZ01972Z	LC FILTER	
LC3	PGZ01972Z	LC FILTER	1
LC4	PGZ01972Z	LC FILTER	
LC5	PGZ01972Z	LC FILTER	
		LC FILTER	
LC7 LC10	PGZ01972Z PGZ01972Z	LC FILTER	
LC10	PGZ01972Z	LC FILTER	
LC12	PGZ01972Z	LC FILTER	
LC301	PGZ01972Z	LC FILTER	
LCSUI	FG2019722	LOFILIER	
LC351 LC352	SSV3036-12R3Y PGZ01972Z	LC FILTER LC FILTER	12.3MHz
X1 X301	PGZ02143 SDV0026	CRYSTAL CRYSTAL	49.5MHz 24.576MHz
X500	QAX0328-001X	CRYSTAL	4.9152MHz
TH1	NAD0001-103X	THERMISTOR	10k
CN1	PGZ01932-020Z	CONNECTOR	20PIN
CN2	PGZ01932-020Z	CONNECTOR	24PIN
CN4	PGZ01932-022Z	CONNECTOR	22PIN
CN6	SCV2596-028W	CONNECTOR	28PIN
CN9	QGB1211M1-80S	CONNECTOR	80PIN
CN10	PGZ01932-022Z	CONNECTOR	22PIN
CN12	PGZ01932-015Z	CONNECTOR	15PIN
TP	SSV1096-001	TEST POINT	TP1-TP355
ТВ	NNZ0006-001X	EARTH TERMINAL	TB1-TB6
1			
1			İ
1			
1			
1			
l			
			·
İ			
1			
1			
l			
		1	
		1	
1			
1			
1			
	1		
1			
1			·
1		1	
1			
1			
1			
1	1		
1			
1			ļ
1			
1			

6.3 I/O SSG BOARD ASSEMBLY PARTS LIST 03 SLK1070-00B

OLIV	1070-00B				
Symbol No.	Part No.	Part Name	Description		
IC1 IC4 IC5 IC6 IC7 IC8 IC9 IC10	RL5C292-001 TC74ACT541F-X EPM064-15-003 TC74LCX244F-X DS90C032TM-X DS90C032TM-X MC14577CF-X JCL0024 MM74HC4046M-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	RICHO TOSHIBA ALTERA TOSHIBA NATIONAL SEMICO NATIONAL SEMICO MOTOROLA JVC NATIONAL SEMICO		
IC12 IC304 IC307 IC308 IC310 IC312 IC315 IC316 IC317 IC321 IC322	TC4W53F-X TK16031AMTL UPC4082G2-X LM6361M-X TC4W53F-X TK16031AMTL UPC4082G2-X LM6361M-X TC4W53F-X UPC4082G2-X LM6361M-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA TOKO DENSHI NEC TEXAS TOSHIBA TOKO DENSHI NEC TEXAS TOSHIBA NEC TEXAS TOSHIBA NEC TEXAS		
IC323 IC328 IC329 IC330 IC601 IC602 IC603 IC604 IC605 IC606	TC4W53F-X EL4583CS-X TC7W04F-X TC74VHC221AF-X UPC78L05T-X CXD1175AM-X UPC78L05T-X CXD1175AM-X UPC78L05T-X CXD1175AM-X UPC78L05T-X CXD1175AM-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	TOSHIBA ELANTEC TOSHIBA TOSHIBA NEC SONY NEC SONY NEC SONY		
IC607 IC612 IC613 IC614 IC617 IC618 IC619 IC620 IC622 IC624	JCL0026 DS90C031TM-X DS90C031TM-X TC74ACT541F-X DS90C031TM-X AN77L03M-X TC74VHC541F-X UPC2384GA UPC78L05T-X UPC4082G2-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M) I.C.(M)	JVC NATIONAL SEMICO NATIONAL SEMICO TOSHIBA NATIONAL SEMICO MATSUSHITA TOSHIBA NEC NEC NEC		
1C625	TC74VHC221AF-X	I.C.(M)	TOSHIBA		
Q1 Q2 Q3 Q5 Q6 Q7 Q8 Q9 Q10 Q11	2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM		
Q12 Q13 Q301 Q302 Q304 Q305 Q306 Q307 Q308 Q309	2SC4081/QR/-X DTC124EUA-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SA1576A/QRS/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM		
Q310 Q312 Q313 Q314 Q315 Q316 Q317 Q318 Q318 Q319 Q320	2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM		

Symbol			Description of the second of t
No.	Part No.	Part Name	Description
Q321 Q322 Q323 Q325 Q326 Q327	2SC4081/QR/-X 2SA1576A/QRS/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X 2SC4081/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	ROHM ROHM ROHM ROHM ROHM
D1 D2 D3 D4 D5 D303 D601 D602 D603 D604	DAN202U-X DAN202U-X DAN202U-X DAN202U-X DAN202U-X DAP202K-X DAP202K-X DAP202K-X DAP202K-X DAP202K-X DAP202K-X DAN202K-X	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM
D605 D606 D607 D608	DAP202K-X DAN202K-X DA204U-X DA204U-X	DIODE DIODE DIODE DIODE	ROHM ROHM ROHM ROHM
R1 R2 R3 R4 R5 R6 R7 R8 R9	NRSA63J-331X NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-470X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	330 1/16W 100 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W 47 1/16W
R11 R12 R13 R14 R15 R16 R17 R18 R19	NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-104X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47 1/16W 47 1/16W 47 1/16W 100k 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W 100 1/16W
R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-221X NRSA63J-331X NRSA63J-331X NRSA63J-221X NRSA63J-470X NRSA63J-182X NRSA63J-182X NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 1/16W 47 1/16W 47 1/16W 220 1/16W 330 1/16W 330 1/16W 220 1/16W 47 1/16W 1.8k 1/16W 560 1/16W
R32 R33 R34 R35 R36 R37 R38 R39 R41 R42	NRSA63J-470X NRSA63J-0R0X NRSA63J-560X NRSA63J-750X NRSA63J-102X NRSA63J-101X NRSA63J-222X NRSA63J-561X NRSA63J-0R0X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	47 1/16W 0 1/16W 56 1/16W 75 1/16W 1k 1/16W 100 1/16W 2.2k 1/16W 560 1/16W 0 1/16W 2.2k 1/16W
R43 R44 R45 R46 R47 R48 R49 R50 R51 R53	NRSA63J-102X NRSA63J-102X NRSA63J-221X NRSA63J-2070X NRSA63J-104X NRSA63J-101X NRSA63J-101X NRSA63J-470X NRSA63J-470X NRSA63J-470X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 1/16W 1k 1/16W 220 1/16W 0 1/16W 100k 1/16W 100 1/16W 100 1/16W 47 1/16W 47 1/16W 0 1/16W

Symbol No.	Part No.	Part Name		Description	Symbol No.	Part No.	Part Name		Description
	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R142	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R54	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R143	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R55 R58	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R145	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R59	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R148	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R60	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R150	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R151	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R61 R62	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R153	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R63	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	"""				,
R64	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R154	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R65	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R155	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
noo	INTOA000-TOTA	W.G.RESIOTOTI	100	,,,,,,,	R156	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R66	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R157	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R68	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R158	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R69	NRSA63J-0R0X	M.G.RESISTOR	ő	1/16W	R159	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R71	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R160	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R74	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R161	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R75	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R162	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R76	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R163	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R77	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W					
R78	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R164	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R79	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R165	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
1173	141137033-1027	W.G.MEGIOTON	110	,	R167	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R80	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R193	NRSA63J-564X	M.G.RESISTOR	560k	1/16W
R81	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W	R194	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R82	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R195	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R83	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R196	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R84	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W	R197	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R85	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R198	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R86	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W	R199	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R87	NRSA63J-821X	M.G.RESISTOR	820	1/16W					
R88	NRSA63J-391X	M.G.RESISTOR	390	1/16W	R200	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R89	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W	R201	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
1103	14110/4000-502/	W.G.MEGIGTON	0.01	,,	R202	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R90	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R203	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R91	NRSA63J-223X	M.G.RESISTOR	22k	1/16W	R204	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R92	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R205	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R93	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R206	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R94	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R207	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R95	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R208	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R96	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	R209	NRSA63J-271X	M.G.RESISTOR	270	1/16W
R97	NRSA63J-154X	M.G.RESISTOR	150k	1/16W					
R98	NRSA63J-221X	M.G.RESISTOR	220	1/16W	R210	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R100	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R211	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
11100	141107-000-1017	W. G. HEOROTON	1.00	, , , , ,	R213	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R101	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R214	NRSA63J-560X	M.G.RESISTOR	56	1/16W
R102	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R219	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R103	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R220	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R112	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R221	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R113	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R222	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R114	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R223	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R115	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R224	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R116	NRSA63J-101X	M.G.RESISTOR	100	1/16W	1				
R117	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R225	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R118	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R226	NRSA63J-101X	M.G.RESISTOR	100	1/16W
1	1411074000 10174			.,	R227	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R119	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R228	NRSA63J-101X	M.G.RESISTOR	100	1/16₩
R120	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R229	NRSA63J-101X	M.G.RESISTOR	100	1/16VV
R121	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R230	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R122	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R231	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R123	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R232	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R124	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R233	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R125	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R234	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R126	NRSA63J-101X	M.G.RESISTOR	100	1/16W					
R127	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R235	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R128	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R237	NRSA63J-101X	M.G.RESISTOR	100	1/16W
11120	14110/2000-1017	W.O. ILOIOTOIT	1.00	,,,,,,,,	R238	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R129	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R239	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R130	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R240	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R131	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R243	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R132	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R257	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R133	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R258	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R134			100	1/16W	R259	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R134	NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100	1/16W	R260	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W
R136	NRSA63J-101X		100	1/16W	1,200			1	.,
	NRSA63J-101X	M.G.RESISTOR		1/16W	R261	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R137	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R262	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R138	NRSA63J-101X	M.G.RESISTOR	100	1/1000	R263	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R139	NIPS ACOUTORY	M.C. DECISTOR	100	1/16W	R264	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R140	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R265	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R141	NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100	1/16W	R266	NRSA63J-101X	M.G.RESISTOR	100	1/16W
11141	NRSA63J-101X	WI.G.RESISTON	100	1/1000	11200	. 1107 1000 1017		1.00	

Symbol No.	Part No.	Part Name	De	scription
R272	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R273	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R274	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R275	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R276	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R277	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R278	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R279	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R280	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R282	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R301	NRSA63J-102X	M,G.RESISTOR	1k	1/16W
R303	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R304	NRSA63J-103X	M.G.RESISTOR	10k 1.5k	1/16W 1/16W
R305	NRSA63J-152X	M.G.RESISTOR	1.5K	171000
R306	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R307	NRSA63J-751X	M.G.RESISTOR	750	1/16W
R308	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R309	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R310	NRSA63J-333X	M.G.RESISTOR	. 33k	1/16W
R311	NRSA63J-221X	M.G.RESISTOR	220 18k	1/16W 1/16W
R314	NRSA63J-183X	M.G.RESISTOR M.G.RESISTOR	18K	1/16W
R315 R316	NRSA63J-102X NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R316	NRSA63J-681X	M.G.RESISTOR	680	1/16W
	NIBCACO LOCOV	M.G.RESISTOR	3.9k	1/16W
R318	NRSA63J-392X NRSA63J-101X	M.G.RESISTOR	100	1/16W
R319 R320	NRSA63J-101X NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R321	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R322	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R323	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R324	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R325	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R326	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R327	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R328	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R329	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R330	NRSA63J-472X	M.G.RESISTOR	4.7k 4.7k	1/16W 1/16W
R331	NRSA63J-472X NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR	560	1/16W
R332 R333	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R335	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R336	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R337	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R338	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R339	NRSA63J-751X	M.G.RESISTOR	750	1/16W
R340	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R341	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R342	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R343	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R346	NRSA63J-391X	M.G.RESISTOR	390 18k	1/16W 1/16W
R347	NRSA63J-183X	M.G.RESISTOR M.G.RESISTOR	11k	1/16W
R348 R349	NRSA63J-102X NRSA63J-221X	M.G.RESISTOR	220	1/16W
R349	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
0051	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R351 R352	NRSA63J-102X NRSA63J-681X	M.G.RESISTOR	680	1/16W
R352	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R354	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R355	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R356	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R357		M.G.RESISTOR	3.9k	1/16W
R357 R358	NRSA63J-392X	A A DECICEOD	2.7k	1/16W
R357 R358 R359	NRSA63J-392X NRSA63J-272X	M.G.RESISTOR M.G.RESISTOR	680	1/16W
R357 R358 R359 R360	NRSA63J-392X NRSA63J-272X NRSA63J-681X	M.G.RESISTOR		
R357 R358 R359 R360	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100	1/16W
R357 R358 R359 R360 R361 R362	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100	1/16W 1/16W
R357 R358 R359 R360 R361 R362 R363	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X NRSA63J-101X NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 3.3k	1/16W 1/16W 1/16W
R357 R358 R359 R360 R361 R362 R363 R364	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 3.3k 100	1/16W 1/16W
R357 R358 R359 R360 R361 R362 R363 R364 R365	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRSA63J-101X NRSA63J-272X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 3.3k	1/16W 1/16W 1/16W 1/16W
R357 R358 R359 R360 R361 R362 R363 R364	NRSA63J-392X NRSA63J-272X NRSA63J-681X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRSA63J-101X NRSA63J-272X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 3.3k 100 2.7k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R357 R358 R359 R360 R361 R362 R363 R364 R365 R366	NRSA63J-392X NRSA63J-681X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRSA63J-101X NRSA63J-101X NRSA63J-272X NRSA63J-272X NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	100 100 3.3k 100 2.7k 2.7k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W

Symbol No.	Part No.	Part Name	Descri	ption
R371	NRSA63J-123X	M.G.RESISTOR	12k	1/16VV
R372	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R373	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R374	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R375	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R376	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R377	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R378	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R379	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R380	NRSA63J-751X	M.G.RESISTOR	750	1/16W
R382	NRSA63J-391X	M.G.RESISTOR	390	1/16W
R383	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R384	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R385	NRSA63J-222X	M.G.RESISTOR	2.2k 1.5k	1/16W 1/16W
R386	NRSA63J-152X	M.G.RESISTOR	680	1/16W
R387	NRSA63J-681X	M.G.RESISTOR M.G.RESISTOR	3.9k	1/16W
R388	NRSA63J-392X	M.G.RESISTOR	100	1/16W
R389	NRSA63J-101X	M.G.RESISTOR	2.7k	1/16W
R390	NRSA63J-272X	M.G.RESISTOR	100	1/16W
R391 R392	NRSA63J-101X NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R393	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R394	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R395	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R396	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R397	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R399	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R401	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R402	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R403	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R404	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R405	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R414	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R415	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R416	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R420	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R421	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R427	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R428 R429	NRSA63J-103X NRSA63J-682X	M.G.RESISTOR M.G.RESISTOR	10k 6.8k	1/16W 1/16W
R430	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R432	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R433	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R434	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R435	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R436	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R437	NRSA63J-684X	M.G.RESISTOR	680k	1/16W
R438	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R439	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R440	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R451	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R452	NRSA63J-391X	M.G.RESISTOR	390	1/16W
R453	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R454	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R455	NRSA63J-752X	M.G.RESISTOR	7.5k	1/16W
R456	NRSA63J-752X	M.G.RESISTOR	7.5k	1/16W
R457	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R601	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R603	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R604	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R606	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R608	NRSA63J-182X	M.G.RESISTOR	1.8k 1.8k	1/16W
R609	NRSA63J-182X	M.G.RESISTOR		1/16W
R611	NRSA63J-750X	M.G.RESISTOR	75 1.82	1/16W 1/16W
R613	NRSA63J-182X	M.G.RESISTOR	1.8k 1.8k	•
R614	NRSA63J-182X	M.G.RESISTOR		1/16W
R616	NRSA63J-103X	M.G.RESISTOR	10k 100	1/16W 1/16W
R617	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R618 R619	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100	1/16W
R620	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R621	NRSA63J-101X	M.G.RESISTOR	100	1/16W

Symbol No.	Part No.	Part Name	1	Description	Symbol No.	Part No.	Part Name		Description
R623	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C14	NCS31HJ-471X	CER.CAPACITOR	470p	50V
	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W	C15	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R624					C16	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R625	NRSA63J-105X	M.G.RESISTOR	1M	1/16W					
R629	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	C17	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R633	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	C18	NEH91AM-336X	E.CAPACITOR	33	10V
R634	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C19	NEH91AM-336X	E.CAPACITOR	33	10V
R638	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C20	NEH91AM-336X	E.CAPACITOR	33	10V
R642	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C21	NEH91AM-336X	E.CAPACITOR	33	10V
					000	NODO41IK 400V	OFF CARACITOR	0.01	50V
R643	NRSA63J-101X	M.G.RESISTOR	100	1/16W 1/16W	C22 C23	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V 50V
R645	NRSA63J-101X	M.G.RESISTOR			C24	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R646	NRSA63J-101X	M.G.RESISTOR	100	1/16W				0.01	50V
R647	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C25	NCB31HK-103X	CER.CAPACITOR		
R649	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C26	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R650	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C27	NCS31HJ-5R0X	CER.CAPACITOR	5p	50V
R655	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C28	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R656	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C29	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R657	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C30	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R658	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C31	NEH91AM-336X	E.CAPACITOR	33	10V
							- 0.4 D.4 0/70 D		101/
R659	NRSA63J-101X	M.G.RESISTOR	100	1/16W 1/16W	C32 C33	NEH91AM-336X NEH91AM-336X	E.CAPACITOR E.CAPACITOR	33 33	10V 10V
R660	NRSA63J-101X	M.G.RESISTOR			C34		CER.CAPACITOR	560p	50V
R661	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		NCS31HJ-561X			10V
R662	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C35	NEH91AM-336X	E.CAPACITOR	33	
R663	NRSA63J-221X	M.G.RESISTOR	220	1/16W	C37	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R665	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C38	NEH91CM-476X	E.CAPACITOR	47	16V
R666	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C39	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R667	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C40	QETA1AM-108	E.CAPACITOR	1000	10V
R668	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C41	NEH71AM-107X	E.CAPACITOR	100	10V
R669	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C42	NEH91AM-336X	E.CAPACITOR	33	10V
						NODO41114 40014	OFF CARACITOR	0.01	FOV
R671	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C44	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R672	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	C45	NEH71AM-107X	E.CAPACITOR	100	10V
R673	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	C46	NEH91AM-336X	E.CAPACITOR	33	10V
R674	NRSA63J-912X	M.G.RESISTOR	9.1k	1/16W	C47	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R676	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W	C48	NEH71AM-107X	E.CAPACITOR	100	10V
R677	NRSA63J-471X	M.G.RESISTOR	470	1/16W	C49	NEH71AM-107X	E.CAPACITOR	100	10V
R678	NRSA63J-223X	M.G.RESISTOR	22k	1/16W	C50	NEH71AM-107X	E.CAPACITOR	100	10V
			33k	1/16W	C51	NEH71AM-107X	E.CAPACITOR	100	10V
R679	NRSA63J-333X	M.G.RESISTOR			C52	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R680 R681	NRSA63J-472X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	4.7k 100	1/16W 1/16W	C52	NCB31HK-103X	CER.CAPACITOR	0.01	50V
							OFF CARACITOR	0.01	50V
R682	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	C54	NCB31HK-103X	CER.CAPACITOR	0.01	
R684	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C55	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R685	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C56	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R686	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C57	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R687	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C58	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R700	NRSA63J-101X	M.G.RESISTOR	100	1/16W	C59	NCB31HK-103X	CER.CAPACITOR	0.01	50V
		M.G.RESISTOR	0	1/16W	C60	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R702	NRSA63J-0R0X				C61	NCB31HK-103X	CER.CAPACITOR	0.01	50V
R704	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		1	E.CAPACITOR	100	10V
R705	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W	C62 C63	NEH71AM-107X NEH91AM-336X	E.CAPACITOR	33	107
					1 003	THE TO TAIVE SOOK	2.5/11/2011/011		
VR1	NVP1415-102X	TRIM.RESISTOR	1k	V-OUT LEV	C65	NCS31HJ-471X	CER.CAPACITOR	470p	50V
VR3	NVP1415-202X	TRIM.RESISTOR	2k	H PHASE	C67	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
VR301	NVP1415-202X	TRIM.RESISTOR	2k	R LEV	C301	NCB31HK-103X	CER.CAPACITOR	0.01	50V
VR302	NVP1415-202X	TRIM.RESISTOR	2k	B LEV	C302	NCB31HK-103X	CER.CAPACITOR	0.01	50V
	NVP1415-501X	TRIM.RESISTOR	500	Y LEV	C303	NEH91CM-476X	E.CAPACITOR	47	16∀
	NVP1415-103X	TRIM, RESISTOR	10k	B DL	C304	NEH71AM-107X	E.CAPACITOR	100	10V
VR307		TRIM.RESISTOR	10k	R DL	C310	NCB31HK-103X	CER.CAPACITOR	0.01	50V
		TRIM.RESISTOR	2k	CPY	C311	NEH91CM-476X	E.CAPACITOR	47	16V
VR601				CP R	C312	NEH71AM-107X	E.CAPACITOR	100	10V
	NVP1415-102X NVP1415-102X	TRIM.RESISTOR	1 k 1k	CP B	C312	NCB31HK-103X	CER.CAPACITOR	0.01	50V
							CED CADACITOR	0.01	EAL.
VR604	NVP1415-202X	TRIM.RESISTOR	2k	PS DC	C314	NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V
					C315	NCB31HK-103X	CER.CAPACITOR	0.01	
					C316	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C1	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C317	QETA1AM-227	E.CAPACITOR	220	10V
C2	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C318	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C3	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C319	NCB31HK-103X	CER.CAPACITOR	0.01	50 V
C4		CER.CAPACITOR	0.01	50V	C320	NEH91CM-476X	E.CAPACITOR	47	167
	NCB31HK-103X	· ·		50V	C322	NCS31HJ-820X	CER.CAPACITOR	82p	50V
C6	NCB31HK-103X	CER.CAPACITOR	0.01						107
C7	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C323	NEH71AM-107X	E.CAPACITOR	100	
C8	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C324	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C9	NCB31HK-103X	CER.CAPACITOR	0.01	50V					
C10	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C325	NFV41HJ-102X	FILM CAPACITOR	1000p	50V
C11	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C326	NCB31HK-103X	CER.CAPACITOR	0.01	50 V
011	1.000317171000	SETT. SALITAGE OF	0.01	001	C327	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
	NODerry	CER.CAPACITOR	0.01	50V	C328	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C12		LUER CAPACITUM	EU.UT	307	1 0020	1101010102-1047	JULIUM AUTON	10.1	,
C12 C13	NCB31HK-103X NCS31HJ-471X	CER.CAPACITOR	470p	50V	C329	NEH71AM-107X	E.CAPACITOR	100	10V

Symbol No.	Part No.	Part Name	Description	
	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C333		CER.CAPACITOR		SOV
C335	NCB31HK-103X			6V
C336	NEH91CM-476X	E.CAPACITOR	1 * *	50V
C337	NCB31HK-103X	CER.CAPACITOR	14.4.	-
C338	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C339	NEH71AM-107X	E.CAPACITOR		10V
C344	NEH71AM-107X	E.CAPACITOR	100	10V
C345	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C346	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C347	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C348	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C349	QER41AM-227	E.CAPACITOR		IOV
C350	NCB31HK-103X	CER.CAPACITOR		50V
C350	NCB31HK-103X	CER.CAPACITOR		50V
C352	NEH91CM-476X	E.CAPACITOR	1 * 1 * 1	16V
	110004111 000V	CED CADACITOR	920	50V
C354	NCS31HJ-820X	CER.CAPACITOR		107
C355	NEH71AM-107X	E.CAPACITOR		50V
C356	NCB31HK-103X	CER.CAPACITOR	1	
C357	NFV41HJ-102X	FILM CAPACITOR	1.000	50V
C358	NCB31HK-103X	CER.CAPACITOR		50V
C359	NCF31CZ-104X	CER.CAPACITOR	1	16V
C360	NCF31CZ-104X	CER.CAPACITOR		16V
C361	NEH71AM-107X	E.CAPACITOR		10V
C365	NCB31HK-103X	CER.CAPACITOR		50V
C366	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C367	NEH71AM-107X	E.CAPACITOR	100	10V
C372	NEH71AM-107X	E.CAPACITOR		10V
C372	NCB31HK-103X	CER.CAPACITOR	1	50V
		CER.CAPACITOR	1	50V
C374	NCB31HK-103X		1	10V
C375	QETA1AM-227	E.CAPACITOR		50V
C376	NCB31HK-103X	CER.CAPACITOR		50V
C377	NCB31HK-103X	CER.CAPACITOR		
C378	NEH91CM-476X	E.CAPACITOR		16V
C379	NEH90JM-336X	E.CAPACITOR	1	6.3V
C381	NEH71AM-107X	E.CAPACITOR	100	10\
C382	NCB31HK-103X	CER.CAPACITOR		50V
C383	NFV41HJ-102X	FILM CAPACITOR	1000p	50V
C384	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C385	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C386	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C387	NEH71AM-107X	E.CAPACITOR	100	10V
C388	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C391	NCB31HK-103X	CER.CAPACITOR		50V
C392	NCB31HK-103X	CER.CAPACITOR		50V
C393	NCB31HK-103X	CER.CAPACITOR	1 - 1 - 1	50V
2000	NODOLLIK 100V	CER.CAPACITOR	0.01	50V
C399	NCB31HK-103X	CER.CAPACITOR		50V
C401	NCB31HK-103X	CER.CAPACITOR		50V
C403	NCB31HK-103X	E.CAPACITOR	47	16V
C404	NEH91CM-476X	CER.CAPACITOR		50V
C406	NCS31HJ-101X		0.1	16V
C407	NCF31CZ-104X	CER.CAPACITOR		16V 16V
C408	NCF31CZ-104X	CER.CAPACITOR	0.1	16V 16V
C409	NCF31CZ-104X	CER.CAPACITOR	0.1	50V
C410	NCB31HK-103X	CER.CAPACITOR	0.01	
C411	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C412	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C414	NCS31HJ-331X	CER.CAPACITOR	330p	50V
C415	NCS31HJ-391X	CER.CAPACITOR	390p	50V
C416	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C421	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C601	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C602	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C603	NEH91CM-476X	E.CAPACITOR	47	16V
C605	NEH91EM-475X	E.CAPACITOR	4.7	25V
CEOC	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C606		CER.CAPACITOR	0.01	50V
C607	NCB31HK-103X		0.01	50V
C608	NCB31HK-103X	CER.CAPACITOR		50V 50V
C609	NCS31HJ-181X	CER.CAPACITOR	180p	
C610	NEH71AM-107X	E.CAPACITOR	100	10V
C611	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C612	NEH91EM-475X	E.CAPACITOR	4.7	25V
C613	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C614	NCB31HK-103X	CER.CAPACITOR	0.01	50V

Symbol	Don't Min	Part Name	Description	
No.	Part No.			
C615	NEH91CM-476X	E.CAPACITOR	47	16V
C617	NEH91EM-475X	E.CAPACITOR	4.7	25V
C618	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C619	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C620	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C621	NCS31HJ-151X	CER.CAPACITOR	150p	50V
C622	NEH71AM-107X	E.CAPACITOR	100	10V 50V
C623	NCB31HK-103X	CER.CAPACITOR	0.01	25V
C624	NEH91EM-475X	E.CAPACITOR	0.01	50V
C625 C626	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V
C627	NEH91CM-476X	E.CAPACITOR	47	16V
C629	NEH91EM-475X	E.CAPACITOR	4.7	25V
C630	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C631	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C632	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C633	NCS31HJ-151X	CER.CAPACITOR	150p	50V
C634	NEH71AM-107X	E.CAPACITOR	100	10V
C635	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C636	NEH91EM-475X	E.CAPACITOR	4.7	25V
C637	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C638	NCB31HK-103X NEH91AM-336X	CER.CAPACITOR E.CAPACITOR	0.01	50V 10V
C639 C640	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C641	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C642	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C643	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C644	NEH91HM-105X	E.CAPACITOR	1	50V
C645	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C646	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C647	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C648	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C649	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C650	NEH91AM-336X	E.CAPACITOR	33	10V
C654	NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V
C655	NCB31HK-103X	CER.CAPACITOR	0.01	50V 50V
C656	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V
C657 C658	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C659	NEH91AM-336X	E.CAPACITOR	33	10V
C660	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C663	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C664	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C665	NEH91CM-476X	E.CAPACITOR	47	16V
C667	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C668	NEH91HM-474X	E.CAPACITOR	0.47	50V
C669	NCS31HJ-220X	CER.CAPACITOR	22p	50V
C670	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C671 C672	NCB31HK-103X NCS31HJ-100X	CER.CAPACITOR CER.CAPACITOR	0.01 10p	50V 50V
			100p	50V
C673	NCS31HJ-101X	CER.CAPACITOR	0.1	16V
C674 C675	NCF31CZ-104X NCB31HK-103X	CER.CAPACITOR	0.01	50V
C676	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C677	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C678	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C679	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C680	NEH91CM-476X	E.CAPACITOR	47	16V
C681	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C682	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C683	NEH91CM-476X	E.CAPACITOR	47 0.01	16V 50V
C684	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01	50V
C685 C686	NCB31HK-103X NEH91CM-476X	E.CAPACITOR	47	16V
C687	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C688	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C689	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C690	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C691	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C692	NCS31HJ-470X	CER.CAPACITOR	47p	50V
C693	NCS31HJ-820X	CER.CAPACITOR	82p	50V
C694	NCB31HK-103X	CER.CAPACITOR	0.01	50V

Symbol No.	Part No.	Part Name	Description
C695 C696	NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V 0.01 50V 0.01 50V 0.01 50V 33 10V 0.01 50V 0.01 50V 0.01 50V
C703 C704 C705 C706 C800 C801 C802 C803 C804 C805	NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.01 50V 0.01 50V
C806 C810 C812	NCB31HK-103X NCB31HK-103X NEH71AM-107X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR	0.01 50V 0.01 50V 100 10V
L2 L4	NQL024J-1R8X NQL024J-1R8X	COIL	1.8uH 1.8uH
LC1 LC2 LC3 LC4 LC5 LC6 LC7 LC8 LC9 LC10	PGZ01972Z PGZ01972Z PGZ01972Z PU48530-821J PU48530-821J PU53223-221G PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER COIL COIL LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	820uH 820uH 220uH
LC11 LC12 LC13 LC14 LC15 LC16 LC17 LC18 LC19 LC20	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	
LC21 LC26 LC27 LC28 LC601 LC602 LC603 LC604 LC605 LC606	PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z PGZ01972Z	LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER LC FILTER	
LC607	PGZ01972Z	LC FILTER	
DL301 DL302	PGZ02184-Z PGZ02184-Z	DELAY LINE DELAY LINE	
X601	PGZ02178	CRYSTAL	54MHz
CN1 CN2 CN3 CN4	QGB1211L1-80S PGZ01932-020Z PGZ01932-008Z PGZ02149-103Z	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	80PIN 20PIN 8PIN 3PIN
TP	SSV1096-001	TEST POINT	TP1-TP683

Symbol No.	Part No.	Part Name	Description
FL29 FL301 FL302 FL303	NQR0184-001X PGZ02181 PGZ02181 PELN0320	FL FILTER FL FILTER FL FILTER FL FILTER	
K1 K3 K4 K601 K602 K603 K604	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS	
TB	PGZ02228	EARTH LUG	TB1-TB4
		·	

6.4 RFP BOARD ASSEMBLY PARTS LIST 04 SLK1045-01A 04

Symbol	Part No.	Part Name	Description
No.	AN3740FAP	1.C.(M)	MATSUSHITA
IC301 IC302	UPC4074G2-X	I.C.(M)	NEC
IC401	AN3740FAP	I.C.(M)	MATSUSHITA
iC402	UPC4074G2-X	I.C.(M)	NEC NATIONAL SEMICO
IC501	DS90C032TM-X DS90C031TM-X	I.C.(M) I.C.(M)	NATIONAL SEMICO
IC502 IC503	TC7W04F-X	I.C.(M)	TOSHIBA
IC505	MC74HC08AF-X	I.C.(M)	MOTOROLA
IC506	MC74HC74AF-X	1.C.(M)	MOTOROLA
IC507	MC74HC08AF-X	I.C.(M)	MOTOROLA
IC801	LM2940S-5.0-W	I.C.(M)	NATIONAL SEMICO
IC802	LM2990S-5.0-W	I.C.(M)	NATIONAL SEMICO
Q101	2SC3735/4-5/-X	TRANSISTOR	NEC
0102	2SC3735/4-5/-X	TRANSISTOR	NEC
Q103	2SA1462/3-4/-X	TRANSISTOR	NEC
Q104	2SC3735/4-5/-X	TRANSISTOR	NEC
Q105	2SC3735/4-5/-X	TRANSISTOR	NEC
Q106	2SC3735/4-5/-X	TRANSISTOR	NEC NEC
Q107 Q108	2SC3735/4-5/-X 2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC
Q109	DTC114EUA-X	TRANSISTOR	ROHM
Q110	DTC114EUA-X	TRANSISTOR	ROHM
			1150
Q111	2SC3735/4-5/-X	TRANSISTOR	NEC
Q201 Q202	2SC3735/4-5/-X 2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC NEC
0202	2SA1462/3-4/-X	TRANSISTOR	NEC
0204	2SC3735/4-5/-X	TRANSISTOR	NEC
Q205	2SC3735/4-5/-X	TRANSISTOR	NEC
Q206	2SC3735/4-5/-X	TRANSISTOR	NEC
0207	2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC NEC
Q208 Q209	2SC3735/4-5/-X DTC114EUA-X	TRANSISTOR	ROHM
0203	D1011420/17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Q210	DTC114EUA-X	TRANSISTOR	ROHM
Q211	2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC ROHM
Q301 Q303	2SA1577/QR/-X DTC114EUA-X	TRANSISTOR	ROHM
Q305	2SC3735/4-5/-X	TRANSISTOR	NEC
Q306	2SA1462/3-4/-X	TRANSISTOR	NEC
Q307	2SC3735/4-5/-X	TRANSISTOR	NEC
G308		TRANSISTOR TRANSISTOR	NEC NEC
Q309 Q401	2SC3735/4-5/-X 2SA1577/QR/-X	TRANSISTOR	ROHM
4-01	20/110/1/214/1		
Q403		TRANSISTOR	ROHM
Q405		TRANSISTOR	NEC INEC
Q406 Q407	1 - 1	TRANSISTOR TRANSISTOR	NEC
Q407		TRANSISTOR	NEC
Q409		TRANSISTOR	NEC
Q501		TRANSISTOR	ROHM
Q502		TRANSISTOR	ROHM MATSUSHITA
Q801 Q802		TRANSISTOR	ROHM
2002	200-1001/011/-70		
Q803		TRANSISTOR	ROHM
Q804		TRANSISTOR TRANSISTOR	ROHM ROHM
Q805		TRANSISTOR	ROHM
Q806	25A1577/QR/A	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			40 44044
R101		M.G.RESISTOR	10 1/16W 18k 1/16W
R102		M.G.RESISTOR M.G.RESISTOR	10k 1/16W
R103 R104		M.G.RESISTOR	10 1/16W
R105		M.G.RESISTOR	330 1/16W
R106	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R107		M.G.RESISTOR	180 1/16W 47 1/16W
R108	1	M.G.RESISTOR M.G.RESISTOR	47 1/16W 1k 1/16W
R109 R110		M.G.RESISTOR	180 1/16W
[
R111		M.G.RESISTOR	1k 1/16W 22 1/16W
R112 R113		M.G.RESISTOR M.G.RESISTOR	33k 1/16W

Symbol No.	Part No.	Part Name	Descrip	tion
R115	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R116	NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	2.2k 22	1/16W 1/16W
R117 R118	NRSA63J-220X NRSA63J-100X	M.G.RESISTOR	10	1/16W
R119	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R120	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R121	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R122	NRSA63J-222X	M.G.RESISTOR	2.2k 820	1/16W 1/16W
R123 R124	NRSA63J-821X NRSA63J-821X	M.G.RESISTOR M.G.RESISTOR	820	1/16W
R125	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R126	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R127	NRSA63J-101X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	100 2.2k	1/16W 1/16W
R128 R129	NRSA63J-222X	M.G.RESISTOR	100	1/16W
R130	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R136	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R137 R138	NRSA63J-333X NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	33k 22k	1/16W 1/16W
R139	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R142	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R201	NRSA63J-100X	M.G.RESISTOR	10 18k	1/16W 1/16W
R202 R203	NRSA63J-183X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k	1/16W
R204	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R205	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R206	NRSA63J-471X	M.G.RESISTOR	470	1/16W 1/16W
R207 R208	NRSA63J-181X NRSA63J-470X	M.G.RESISTOR M.G.RESISTOR	180	1/16W
R209	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R210	NRSA63J-181X	M.G.RESISTOR	180	1/16W
R211	NRSA63J-102X NRSA63J-220X	M.G.RESISTOR M.G.RESISTOR	1k 22	1/16W 1/16W
R212 R213	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R214	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R215	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R216 R217	NRSA63J-222X NRSA63J-220X	M.G.RESISTOR M.G.RESISTOR	2.2k 22	1/16W 1/16W
R218	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R219	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R220	NRSA63J-223X NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	22k 22k	1/16W 1/16W
R221 R222	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R223	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R224	NRSA63J-471X	M.G.RESISTOR	1k	1/16W 1/16W
R225	NRSA63J-102X	M.G.RESISTOR		
R226 R227	NRSA63J-103X NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	1.0k 100	1/16W 1/16W
R228	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R229	NRSA63J-101X	M.G.RESISTOR	100	1/16W 1/16W
R230 R233	NRSA63J-220X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W
R236	NRSA63J-470X	M.G.RESISTOR	47	1/16W
R237	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R238 R239	NRSA63J-223X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	22k 2.2k	1/16W 1/16W
R242	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R301	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R302	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R315	NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR	100	1/16W 1/16W
R316 R318	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R319	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R320	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R322 R323	NRSA63J-153X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR	15k 1.5k	1/16W 1/16W
R324	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R325	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R326	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R328	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
R329 R330	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R333	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
	1			

Symbol No.	Part No.	Part Name	Des	cription
R334	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R337 R338	NRSA63J-223X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	22k 10k	1/16W 1/16W
R341	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R342	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R343 R344	NRSA63J-103X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	10k 2.2k	1/16W 1/16W
R345	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R348	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R349	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W 1/16W
R350 R351	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W
R352	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R353 R354	NRSA63J-222X NRSA63J-220X	M.G.RESISTOR M.G.RESISTOR	2.2k 22	1/16W 1/16W
R355	NRSA63J-220X	M.G.RESISTOR	27k	1/16W
R356	NRSA63J-390X	M.G.RESISTOR	39	1/16W
R357	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R358 R359	NRSA63J-222X NRSA63J-151X	M.G.RESISTOR M.G.RESISTOR	2.2k 150	1/16W 1/16W
R361	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R362	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R363	NRSA63J-181X	M.G.RESISTOR	180	1/16W
R364 R365	NRSA63J-151X NRSA63J-181X	M.G.RESISTOR M.G.RESISTOR	150 180	1/16W 1/16W
R366	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R367	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R368 R369	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 10k	1/16W 1/16W
R370	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R371	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R372 R373	NRSA63J-680X NRSA63J-221X	M.G.RESISTOR M.G.RESISTOR	68 220	1/16W 1/16W
R376	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R377	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	680	1/16W 1/16W
R378 R379	NRSA63J-681X NRSA63J-100X	M.G.RESISTOR	10	1/16W
R380	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R381	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R382 R383	NRSA63J-100X NRSA63J-222X	M.G.RESISTOR M.G.RESISTOR	10 2.2k	1/16W 1/16W
R385	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R386	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R387	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R389 R390	NRSA63J-0R0X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	0 10k	1/16W 1/16W
R401	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R402	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R415 R416	NRSA63J-101X NRSA63J-100X	M.G.RESISTOR M.G.RESISTOR	100	1/16W 1/16W
R418	NRSA63J-100X	M.G.RESISTOR	0	1/16W
R419	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R420	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R422 R423	NRSA63J-153X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR	15k 1.5k	1/16W 1/16W
R424	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R425	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R426 R428	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
R429	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R430	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R433 R434	NRSA63J-822X NRSA63J-332X	M.G.RESISTOR M.G.RESISTOR	8.2k 3.3k	1/16W 1/16W
R437	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R438	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R441 R442	NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k	1/16W 1/16W
R442	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR	10k 10k	1/16W
R444	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R445	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R448 R449	NRSA63J-0R0X NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	0	1/16W 1/16W
	NRSA63J-0R0X	M.G.RESISTOR	o	1/16W

Symbol No.	Part No.	Part Name	Description	
R451	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	$\overline{}$
R452	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R453	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R454	NRSA63J-220X	M.G.RESISTOR	22 1/16W	
R455	NR\$A63J-273X	M.G.RESISTOR	27k 1/16W	
R456	NRSA63J-390X	M.G.RESISTOR	39 1/16W	
R457	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R458	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R459	NRSA63J-151X	M.G.RESISTOR	150 1/16W	
R461	NRSA63J-151X	M.G.RESISTOR	150 1/16W	
N401	INNOA033-131A	W.G.NESISTON	1/1044	- 1
R462	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	
R463	NRSA63J-181X	M.G.RESISTOR	180 1/16W	
R464	NRSA63J-151X	M.G.RESISTOR	150 1/16W	
R465	NRSA63J-181X	M.G.RESISTOR	180 1/16W	
R466	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R467	NRSA63J-100X	M.G.RESISTOR	10 1/16W	
R468	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R469	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R470	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W	
R471	NRSA63J-223X	M.G.RESISTOR	22k 1/16W	
R472	NRSA63J-680X	M.G.RESISTOR	68 1/16W	
R473	NRSA63J-221X	M.G.RESISTOR	220 1/16W	
R476	NRSA63J-100X	M.G.RESISTOR	10 1/16W	
R477	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R478	NRSA63J-681X	M.G.RESISTOR	680 1/16W	
R479	NRSA63J-100X	M.G.RESISTOR	10 1/16W	'
R480	NRSA63J-223X	M.G.RESISTOR	22k 1/16W	' l
R481	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	' I
R482	NRSA63J-100X	M.G.RESISTOR	10 1/16W	' I
R483	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W	' I
R485	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	, [
R486	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R487	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R489	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R490	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R501	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	
R502	NRSA63J-153X	M.G.RESISTOR	15k 1/16W	
R503	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	
R504	NRSA63J-153X	M.G.RESISTOR	15k 1/16W	
R505	NRSA63J-273X	M.G.RESISTOR	27k 1/16W	
0500	NIDOAGO LAFOV	MA O DECICEOD	451- 4/40/4/	
R506	NRSA63J-153X	M.G.RESISTOR M.G.RESISTOR	15k 1/16W	
R507	NRSA63J-273X		27k 1/16W	
R508	NRSA63J-153X NRSA63J-101X	M.G.RESISTOR	15k 1/16W	
R509		M.G.RESISTOR	100 1/16W 100 1/16W	
R510	NRSA63J-101X	M.G.RESISTOR M.G.RESISTOR		
R511	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR		
R512	NRSA63J-101X	M.G.RESISTOR	100 1/16W 10 1/16W	
R513	NRSA63J-100X			
R514 R515	NRSA63J-100X	M.G.RESISTOR M.G.RESISTOR	1k 1/16W 10 1/16W	
.1010	1110/1000 100/		1/1500	
R516	NRSA63J-102X	M.G.RESISTOR	1k 1/16W	
R517	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R518	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R519	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R520	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R521	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R522	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R523	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R524	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R525	NRSA63J-100X	M.G.RESISTOR	10 1/16W	
R526	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R527	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R533	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	- 1
R536	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R537	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R538	NRSA63J-101X	M.G.RESISTOR	100 1/16W	
R539	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R546	NRSA63J-223X	M.G.RESISTOR	22k 1/16W	
R547	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R548	NRSA63J-103X	M.G.RESISTOR	10k 1/16W	
R549	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R550	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
R551	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W	
		L		

R554 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R555 NRSA63J-101X M.G.RESISTOR 0 1/16W R556 NRSA63J-101X M.G.RESISTOR 100 1/16W R557 NRSA63J-103X M.G.RESISTOR 100 1/16W R559 NRSA63J-102X M.G.RESISTOR 176W 1/16W R560 NRSA63J-103X M.G.RESISTOR 1716W R561 NRSA63J-103X M.G.RESISTOR 10k 1/16W R562 NRSA63J-103X M.G.RESISTOR 10k 1/16W R563 NRSA63J-103X M.G.RESISTOR 10k 1/16W R664 NRSA63J-103X M.G.RESISTOR 10k 1/16W R665 NRSA63J-103X M.G.RESISTOR 10k 1/16W R666 NRSA63J-103X M.G.RESISTOR 10k 1/16W R667 NRSA63J-103X M.G.RESISTOR 47 1/16W R671 NRSA63J-103X M.G.RESISTOR 47 1/16W R671 <	Symbol No.	Part No.	Part Name	Description
R555 NRSA63J-0R0X M.G.RESISTOR 0 1/16W R557 NRSA63J-103X M.G.RESISTOR 100 1/16W R558 NRSA63J-103X M.G.RESISTOR 100 1/16W R559 NRSA63J-102X M.G.RESISTOR 47 1/16W R560 NRSA63J-102X M.G.RESISTOR 47 1/16W R561 NRSA63J-103X M.G.RESISTOR 10k 1/16W R562 NRSA63J-103X M.G.RESISTOR 10k 1/16W R562 NRSA63J-103X M.G.RESISTOR 47 1/16W R563 NRSA63J-103X M.G.RESISTOR 10k 1/16W R664 NRSA63J-103X M.G.RESISTOR 10k 1/16W R665 NRSA63J-103X M.G.RESISTOR 10k 1/16W R666 NRSA63J-103X M.G.RESISTOR 10k 1/16W R669 NRSA63J-103X M.G.RESISTOR 10k 1/16W R670 NRSA63J-103X M.G.RESISTOR 10k 1/16W <t< th=""><th></th><th>VIBSVE3 FUBUX</th><th>M.G. RESISTOR</th><th>0 1/16W</th></t<>		VIBSVE3 FUBUX	M.G. RESISTOR	0 1/16W
R556				
R557 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W R559 NRSA63J-103X M.G.RESISTOR 10k 1/16W				1
R558				1
R559				
R560				
R561				
NRSA63J-103X M.G.RESISTOR 10k	HOOU	NN5A633-102A	M.G.NESISTON	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NRSA63J-103X M.G.RESISTOR 10k	DEC1	NIDCAGO I 109V	M C DESISTOR	10k 1/16W
R563				
R564 NRSA63J-101X M.G.RESISTOR 100 1/16W 1/16W R565 NRSA63J-103X M.G.RESISTOR 100 1/16W 1/16W R566 NRSA63J-103X M.G.RESISTOR 100 1/16W 1/16W R569 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W R569 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W R570 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W R571 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W R571 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1/16W NRSA63J-153X M.G.RESISTOR 1.5k 1/16W NRSA63J-153X M.G.RESISTOR 1.5k 1/16W NRSA63J-153X M.G.RESISTOR 1.5k 1/16W NRSA63J-152X M.G.RESISTOR 3.9k 1/16W NRSA63J-152X M.G.RESISTOR 3.9k 1/16W NRSA63J-152X M.G.RESISTOR 3.9k 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-162X M.G.RESISTOR 1.5k 1/16W NRSA63J-162X M.G.RESISTOR 1.5k 1/16W NRSA63J-162X M.G.RESISTOR 1.5k 1/16W NRSA63J-162X M.G.RESISTOR 1.5k 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESIS				
R565 NRSA63J-103X M.G.RESISTOR 10k 1716W 1				
R566 R567 RSA63J-104X M.G.RESISTOR 47	.,			
R567 R568 RSA63J-102X M.G.RESISTOR H.				
R568 R569 R5A63J-102X M.G.RESISTOR 1k				
R569 NRSA63J-103X M.G.RESISTOR 10k 1/16W 1				
R570 NRSA63J-103X M.G.RESISTOR 10k 1/16W				
R571				
R801	R570	NRSA63J-103X	IVI.G.RESISTOR	100
R801		ND 0 4 00 470\/	M C DECICTOR	47 1/16/4/
R802 NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-153X M.G.RESISTOR 1.5k 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-392X M.G.RESISTOR 3.9k 1/16W NRSA63J-392X M.G.RESISTOR 3.9k 1/16W NRSA63J-103X M.G.RESISTOR 1.5k 1/16W NRSA63J-103X M.G.RESISTOR 1.5k 1/16W NRSA63J-10X M.G.RESISTOR 1.5k 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 1.5k 1/16W NRSA63J-0R0X M.G.RESISTOR 1.5k 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X NRSA63J-0R0X NRGARESISTOR 0 1/16W NRSA63J-0R0X N				
R803				
R804 NRSA63J-472X M.G.RESISTOR 4.7k 1/16W R806 NRSA63J-392X M.G.RESISTOR 3.9k 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-103X M.G.RESISTOR 10k 1/16W NRSA63J-103X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-152X M.G.RESISTOR 1.5k 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X				1121
R805 NRSA63J-392X M.G.RESISTOR 3.9k 1/16W R806 NRSA63J-163X M.G.RESISTOR 1.5k 1/16W R807 NRSA63J-0R0X M.G.RESISTOR 1.5k 1/16W R808 NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W R811 NRSA63J-0R0X M.G.RESISTOR 1.5k 1/16W R812 NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NRSA63J-0R0X M.G.RESISTOR 0 1/16W NVP1415-501X TRIM.RESISTOR 500 EQ1 LEVEL NVP1415-501X TRIM.RESISTOR 500 EQ2 LEVEL NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR308 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING NVP1415-103X TRIM.RESISTOR 10k ERR TIMING NVP1415-103X TRIM.RESISTOR 10k ERR TIMING NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING NVP1415-103X TRIM.RESISTOR 10k LAT TIMING				
R806				
R807	,			
R808 NRSA63J-OROX M.G.RESISTOR 0 1/16W R809 NRSA63J-OROX M.G.RESISTOR 0 1/16W R810 NRSA63J-OROX M.G.RESISTOR 4.7k 1/16W R811 NRSA63J-152X M.G.RESISTOR 1.5k 1/16W R812 NRSA63J-OROX M.G.RESISTOR 0 1/16W R813 NRSA63J-OROX M.G.RESISTOR 0 1/16W VR101 NVP1415-501X TRIM.RESISTOR 500 EQ1 LEVEL VR201 NVP1415-501X TRIM.RESISTOR 500 EQ1 LEVEL VR201 NVP1415-501X TRIM.RESISTOR 500 EQ2 LEVEL VR202 NVP1415-501X TRIM.RESISTOR 500 EQ2 LEVEL VR305 NVP1415-501X TRIM.RESISTOR 10k VCO FREQ VR306 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR308 NVP1415-103X TRIM.RESISTOR 10k				
R809 NRSA63J-0R0X M.G.RESISTOR 0 1/16W				
R810	R808	NRSA63J-0R0X		1
R811	R809	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R811				
R812 NRSA63J-OROX M.G.RESISTOR 0 1/16W	R810			
NRSA63J-0R0X M.G.RESISTOR O	R811	NRSA63J-152X		
VR101	R812	NRSA63J-0R0X	M.G.RESISTOR	
\text{VR102} \text{NVP1415-501X} \text{TRIM.RESISTOR} \text{500} \text{RF1 LEVEL} \text{VR201} \text{NVP1415-501X} \text{TRIM.RESISTOR} \text{500} \text{EQ2 LEVEL} \text{VR305} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{VCO FREQ} \text{VR306} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{VCO FREQ} \text{VR307} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{VR308} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LOE LEVEL} \text{VR309} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ AMP} \text{VR310} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ AMP} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ AMP} \text{VR406} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{VCO FREQ} \text{VR406} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{VR407} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{VR408} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{VR409} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{ERR TIMING} \text{VR410} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{ERR TIMING} \text{VR411} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{PRE EQ AMP} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{ERR EQ AMP} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{DIP ADJ.2} \text	R813	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
VR102 NVP1415-501X TRIM.RESISTOR 500 RF1 LEVEL VR201 NVP1415-501X TRIM.RESISTOR 500 EQ2 LEVEL VR202 NVP1415-501X TRIM.RESISTOR 500 RF2 LEVEL VR305 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR306 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X T				
VR102 NVP1415-501X TRIM.RESISTOR 500 RF1 LEVEL VR201 NVP1415-501X TRIM.RESISTOR 500 EQ2 LEVEL VR202 NVP1415-501X TRIM.RESISTOR 500 RF2 LEVEL VR305 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR306 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X T				504 LB/FI
VR201				1
VR202 NVP1415-501X TRIM.RESISTOR 500 RF2 LEVEL VR306 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR307 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR308 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR410 NVP1415-103X T	VR102			
VR305 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR306 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR308 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR411 NVP1415-103X TRIM	VR201			
VR306 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR307 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR308 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-102X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-103X <t< td=""><td>VR202</td><td>NVP1415-501X</td><td></td><td></td></t<>	VR202	NVP1415-501X		
VR307 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR308 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR411 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X <	VR305	NVP1415-103X	TRIM.RESISTOR	
VR308 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-102X TRIM.RESISTOR 200 DIP ADJ.1 VR406 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR411 NVP1415-102X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ PH VR412 NVP1415-103X T	VR306	NVP1415-103X		
VR309 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-102X TRIM.RESISTOR 200 DIP ADJ.1 VR405 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR411 NVP1415-102X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k DIP ADJ.2 C101 NCB31HK-103X TR	VR307	NVP1415-103X	TRIM.RESISTOR	1
VR310 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR311 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR312 NVP1415-201X TRIM.RESISTOR 200 DIP ADJ.1 VR405 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-102X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k DIP ADJ.2 C101 NCB31HK-103X C102 NBE41CM-106X TAN.CAPACITOR TAN.CA	VR308	NVP1415-103X	TRIM.RESISTOR	
VR311 NVP1415-102X TRIM.RESISTOR 1k SUB VOL.1 VR405 NVP1415-201X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k SLICE LEVEL VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-102X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP NVP1415-201X TRIM.RESISTOR 10k SUB VOL.	VR309	NVP1415-103X	TRIM.RESISTOR	
VR312 NVP1415-201X TRIM.RESISTOR 200 DIP ADJ.1 VR405 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k DIP ADJ.2 DIP ADJ.2	VR310	NVP1415-103X	TRIM.RESISTOR	10k PRE EQ AMP
VR312 NVP1415-201X TRIM.RESISTOR 200 DIP ADJ.1 VR405 NVP1415-103X TRIM.RESISTOR 10k VCO FREQ VR406 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR407 NVP1415-103X TRIM.RESISTOR 10k LAT TIMING VR408 NVP1415-103X TRIM.RESISTOR 10k ERR TIMING VR409 NVP1415-103X TRIM.RESISTOR 10k PRE EQ PH VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP VR412 NVP1415-201X TRIM.RESISTOR 10k PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k PRE EQ AMP PRE EQ AMP TRIM.RESISTOR 10k DIP ADJ.2 DIP ADJ.2				
\text{VR406} \text{VP1415-103X} \text{VR1405-103X} \text{TRIM.RESISTOR} \text{10k} \text{VCO FREQ} \text{VR407} \text{VP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{VR408} \text{VP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{LAT TIMING} \text{SLICE LEVEL} \text{TRIM.RESISTOR} \text{10k} \text{RR TIMING} \text{VR409} \text{VP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ PH} \text{VR410} \text{VP1415-103X} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ AMP} \text{VR411} \text{VVP1415-102X} \text{TRIM.RESISTOR} \text{10k} \text{SUB VOL.} \text{VR412} \text{VVP1415-201X} \text{TRIM.RESISTOR} \text{200} \text{DIP ADJ.2} \text{DIP ADJ.2} \text{C101} \text{NCB31HK-103X} \text{CER.CAPACITOR} \text{0.01} \text{50V} \text{TAN.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TAN.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{VB41CM-106X} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \text{10} \text{10} \text{16V} \text{TAN.CAPACITOR} \text{10} \tex	VR311			
\text{VR406} \text{VP1415-103X} \text{VR407} \text{VP1415-103X} \text{VR108-103X} \text{VR1108-103X} \text{VR1108-103X} \text{VR11108-103X} \text{VR1108-106X} \text{VR1108-106X} \text{VR1108-106X} \text{VR1108-106X} \text{VR108-106X} \tex	VR312	NVP1415-201X		
\text{VR407} \text{VP1415-103X} \text{VR108-103X} \text{VR108-103X} \text{VR108-103X} \text{VR108-103X} \text{VR109-103X} \text{VR109-103X} \text{VR109-103X} \text{VR109-103X} \text{VR109-103X} \text{VR1109-103X} \text{VR1109-103X} \text{VR1109-103X} \text{VR1109-103X} \text{VR1109-103X} VR1109-109-109-109-109-109-109-109-109-109	VR405	NVP1415-103X		
\text{VR408} \text{NVP1415-103X} \text{VR409} \text{NVP1415-103X} \text{VR10} \text{VR410} \text{NVP1415-103X} \text{VR410} \text{NVP1415-103X} \text{VR411} \text{NVP1415-102X} \text{VR411} \text{VR412} \text{NVP1415-201X} \text{TRIM.RESISTOR} \text{TRIM.RESISTOR} \text{10k} \text{PRE EQ AMP} \text{VR412} \text{VP1415-201X} \text{TRIM.RESISTOR} \text{TRIM.RESISTOR} \text{10k} \text{SUB VOL.} \text{DIP ADJ.2} \text{C101} \text{NCB31HK-103X} \text{CER.CAPACITOR} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{10} \text{16V} \text{10} \text	VR406			
\text{VR409} \text{NVP1415-103X} \text{VR410} \text{NVP1415-103X} \text{VR411} \text{NVP1415-103X} \text{VR411} \text{NVP1415-102X} \text{VR412} \text{VP1415-201X} \text{TRIM.RESISTOR} \text{10k} \text{RESISTOR} \text{10k} \text{SUB VOL.} \text{TRIM.RESISTOR} \text{200} \text{DIP ADJ.2} \text{C101} \text{NCB31HK-103X} \text{CER.CAPACITOR} \text{C0.01} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{0.01} \text{50V} \text{TRIM.CAPACITOR} \text{10} \text{10} \text{16V} \text{10} \		NVP1415-103X		
VR410 NVP1415-103X TRIM.RESISTOR 10k PRE EQ AMP VR411 NVP1415-102X TRIM.RESISTOR 1k SUB VOL. VR412 NVP1415-201X TRIM.RESISTOR 200 DIP ADJ.2 C101 NCB31HK-103X CER.CAPACITOR 0.01 50V C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V TAN.CAPACITOR 10 16V	VR408	NVP1415-103X		
\text{VR411} \text{ NVP1415-102X } \text{ TRIM.RESISTOR } 1k \text{ SUB VOL. } \text{ DIP ADJ.2} \text{ TRIM.RESISTOR } 200 \text{ DIP ADJ.2} \text{ DIP ADJ.2} \text{ C101 } \text{ NCB31HK-103X } \text{ CER.CAPACITOR } 0.01 \text{ 50V } \text{ C102 } \text{ NBE41CM-106X } \text{ TAN.CAPACITOR } 10 \text{ 16V } \text{ 16V } \text{ C103 } \text{ NCB31HK-103X } \text{ CER.CAPACITOR } 0.01 \text{ 50V } \text{ 50V } \text{ C104 } \text{ NBE41CM-106X } \text{ TAN.CAPACITOR } 10 \text{ 16V } 16	VR409	NVP1415-103X		1
VR412 NVP1415-201X TRIM.RESISTOR 200 DIP ADJ.2 C101 NCB31HK-103X CER.CAPACITOR 0.01 50V C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V	VR410	NVP1415-103X		
C101 NCB31HK-103X CER.CAPACITOR 0.01 50V C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V	VR411	NVP1415-102X	TRIM.RESISTOR	
C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V	VR412	NVP1415-201X	TRIM.RESISTOR	200 DIP ADJ.2
C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V	1			
C102 NBE41CM-106X TAN.CAPACITOR 10 16V C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V				
C103 NCB31HK-103X CER.CAPACITOR 0.01 50V C104 NBE41CM-106X TAN.CAPACITOR 10 16V	C101			
C104 NBE41CM-106X TAN.CAPACITOR 10 16V	C102			1.7
C104 NBE41CM-106X TAN.CAPACITOR 10 16V	E .	NCB31HK-103X		
ALAS MODELLIK ACCOUNTS CARACITOD COS	C104	NBE41CM-106X	TAN.CAPACITOR	
C100 INCOOTING TOOK	C105	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C106 NDC31HJ-560X CER.CAPACITOR 56p 50V		NDC31HJ-560X	CER.CAPACITOR	
C107 NDC31HJ-220X CER.CAPACITOR 22p 50V				1
C108 NCB31HK-103X CER.CAPACITOR 0.01 50V				0.01 50V
C109 NCF31CZ-104X CER.CAPACITOR 0.1 16V				
C110 NCF31CZ-104X CER.CAPACITOR 0.1 16V	•		CER.CAPACITOR	0.1 16V
C111 NCB31HK-103X CER.CAPACITOR 0.01 50V	C111	NCB31HK-103X	CER.CAPACITOR	
C112 NBE41CM-106X TAN.CAPACITOR 10 16V		NBE41CM-106X	TAN.CAPACITOR	
C113 NCB31HK-102X CER.CAPACITOR 1000p 50V			CER.CAPACITOR	. = = = [-
C114 NCB31HK-103X CER.CAPACITOR 0.01 50V			CER.CAPACITOR	
C115 NBE41CM-106X TAN.CAPACITOR 10 16V				10 16V
C116 NCB31HK-103X CER.CAPACITOR 0.01 50V				0.01 50V
C117 NCB31HK-103X CER.CAPACITOR 0.01 50V				0.01 50V
C118 NBE41CM-106X TAN.CAPACITOR 10 16V				10 16V
C119 NCB31HK-103X CER.CAPACITOR 0.01 50V				
5775	C120	NCB31HK-103X		

Symbol No.	Part No.	Part Name	Description
C121 C122	NBE41CM-106X NCB31HK-103X	TAN.CAPACITOR CER.CAPACITOR	10 16V 0.01 50V
C122	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C124	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C127	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C201	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C202	NBE41CM-106X	TAN.CAPACITOR	10 16V
C203	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C204	NBE41CM-106X	TAN.CAPACITOR	10 16V
C205	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C206	NDC31HJ-390X	CER.CAPACITOR	39p 50V
C207	NCB31HK-103X	CER.CAPACITOR	0.01 50V 22p 50V
C208	NDC31HJ-220X	CER.CAPACITOR	22p 50V 0.1 16V
C209 C210	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1 16V
C210	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C212	NBE41CM-106X	TAN.CAPACITOR	10 16V
C213	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C214	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C215	NBE41CM-106X	TAN.CAPACITOR	10 16V
C216	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C217	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C218	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C219	NBE41CM-106X	TAN.CAPACITOR	10 16V 0.01 50V
C220	NCB31HK-103X	CER.CAPACITOR	0.01 50V 0.01 50V
C221	NCB31HK-103X NBE41CM-106X	TAN, CAPACITOR	10 16V
C222 C223	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C223	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C227	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C301	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C302	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C303	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C304	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C305	NCB31HK-102X	CER.CAPACITOR	1000p 50V
C306	NCB31HK-102X	CER.CAPACITOR CER.CAPACITOR	1000p 50V 0.1 50V
C307	NCB21EK-104X NCB31HK-102X	CER.CAPACITOR	1000p 50V
C308 C309	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C313	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C314	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C315	NCS31HJ-331X	CER.CAPACITOR	330p 50V
C316	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C317	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C318	NCB31HK-152X	CER.CAPACITOR	1500p 50V 0.1 16V
C319 C320	NCF31CZ-104X	CER.CAPACITOR M.G.RESISTOR	0.1 16V 470 1/16W
C320	NRSA63J-471X NBE21AM-106X	TAN.CAPACITOR	10 10V
C322	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C327	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C329	NCS31HJ-471X	CER.CAPACITOR	470p 50V
C330	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C331	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C332	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C333	NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C334	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR	0.1 16V 0.1 16V
C335 C336	NCB31CZ-104X NCB31HK-103X	CER.CAPACITOR	0.01 50V
C337	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C338	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C339	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C340	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C341	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C342	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C343	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C344	NBE21EM-105X	TAN.CAPACITOR	1 25V
C345	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C346	NCB31HK-103X	CER.CAPACITOR TAN.CAPACITOR	0.01 50V 10 10V
C347 C348	NBE21AM-106X NBE21AM-106X	TAN.CAPACITOR	10 10V
C349	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C350	NBE21AM-106X	TAN.CAPACITOR	10 10V
C355	NCB11AK-225	CER.CAPACITOR	2.2 16V
		1	

Symbol No.	Part No.	Part Name	Des	scription	Symbol No.	Part No.	Part Name	De	escription
C356	QRSA08J-471	M.G.RESISTOR	470	1/8W	C505	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C359	NBE21AM-106X	TAN.CAPACITOR	10	10V	C506	NBE41CM-106X	TAN.CAPACITOR	10	16V
	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C507	NDC31HJ-100X	CER.CAPACITOR	10p	50V
C360		TAN.CAPACITOR	10	10V	C508	NDC31HJ-100X	CER.CAPACITOR	10p	50V
C361	NBE21AM-106X		1	25V	C509	NBE41CM-106X	TAN.CAPACITOR	10	16V
C363	NBE21EM-105X	TAN.CAPACITOR	1	16V	C510	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C364	NCF31CZ-104X	CER.CAPACITOR	0.1				CER.CAPACITOR	0.01	50V
C365	NBE41CM-106X	TAN.CAPACITOR	10	16V	C511	NCB31HK-103X		0.01	50V
C366	NBE41CM-106X	TAN.CAPACITOR	10	16V	C512	NCB31HK-103X	CER.CAPACITOR		
C367	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C513	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C368	NCB31EK-103X	CER.CAPACITOR	0.01	50V	C514	NCS31HJ-221X	CER.CAPACITOR	220p	50V
C369	NDC31HJ-680X	CER.CAPACITOR	68p	50V	C515	NCB31HK-103X	CER.CAPACITOR CER.CAPACITOR	0.01 0.01	50V 50V
C371	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C516	NCB31HK-103X			50V
C372	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C517	NCS31HJ-681X	CER.CAPACITOR	680p	
C401	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C518	NCS31HJ-221X	CER.CAPACITOR	220p	50V
C402	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C519	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C403	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C520	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C404	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C521	NCS31HJ-681X	CER.CAPACITOR	680p	50V
C405	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C522	NBE41CM-106X	TAN.CAPACITOR	10	16V
C406	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C523	NDC31HJ-100X	CER.CAPACITOR	10p	50V
C407	NCB21EK-104X	CER.CAPACITOR	0.1	50V	C525	NDC31HJ-3R0X	CER.CAPACITOR	3р	50V
C408	NCB31HK-102X	CER.CAPACITOR	1000p	50V	C526	NDC31HJ-3R0X	CER.CAPACITOR	3p	50V
C409	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C527	NDC31HJ-3R0X	CER.CAPACITOR	Зр	50V
C412	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	. C528	NDC31HJ-3R0X	CER.CAPACITOR	3p	50V
C413	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C801	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C414	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C802	NEH91CM-226X	E.CAPACITOR	22	16V
C415	NCS31HJ-331X	CER.CAPACITOR	330p	50V	C803	NBE51CM-226X	TAN.CAPACITOR	22	16V
C417	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C804	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C418	NCB31HK-152X	CER.CAPACITOR	1500p	50V	C805	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C419	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C806	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C420	NRSA63J-471X	M.G.RESISTOR	470	1/16VV	C807	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C421 -	NBE21AM-106X	TAN.CAPACITOR	10	10V	C808	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C422	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C809	NEH91CM-226X	E.CAPACITOR	22	16V
C427	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C810	NBE51CM-226X	TAN.CAPACITOR	22	16V
C429	NCS31HJ-471X	CER.CAPACITOR	470p	50V	C811	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C430	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C812	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C431	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C813	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C431	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C814	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C432	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	C815	NEH91CM-226X	E.CAPACITOR	22	16V
			0.1	16V	C816	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C434 C435	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1	16V	C817	NEH91EM-106X	E.CAPACITOR	10	25V
C436	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C818	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C436	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C821	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C437	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C822	NCB31HK-103X	CER.CAPACITOR	0.01	50V
			0.01	50V	C826	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C439	NCB31HK-103X	CER.CAPACITOR	0.01	50V	C827	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C440	NCB31HK-103X	CER.CAPACITOR		50V	C828	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C441	NCB31HK-103X	CER.CAPACITOR	0.01		C020	NCB3111K-103X	CEN.CALACITOR	0.01	
C442	NCB31HK-103X	CER.CAPACITOR	0.01	50V	VC301	NAT3112-200RZ	TRIM.CAPACITOR	20p DL Al	DI1
C443	NCB31HK-103X	CER.CAPACITOR	0.01	50V	VC401		TRIM.CAPACITOR	20p DL A	
C444 C445	NBE21EM-105X NCB31HK-103X	TAN.CAPACITOR CER.CAPACITOR	0.01	25V 50V	VC401	NAT3112-200RZ	TRIIVI.CAPACITOR	SOP DE A	DJ.2
				FOV.	1101	NQL024J-R47X	COIL	0.47uH	
C446	NCB31HK-103X	CER.CAPACITOR	0.01	50V	L101		COIL	0.47uH	
C447	NBE21AM-106X	TAN.CAPACITOR	10	10V	L102	NQL024J-R47X			
C448	NBE21AM-106X	TAN.CAPACITOR	10	10V	L201	NQL024J-R47X	COIL	0.47uH	
C450	NBE21AM-106X	TAN.CAPACITOR	10	10V	L202	NQL024J-R47X	COIL	0.47uH	
C455	NCB11AK-225	CER.CAPACITOR	2.2	16V	L802	NQL024J-100X	COIL	10uH	
C456	QRSA08J-471	M.G.RESISTOR	470	1/8W				15:	
C457	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	TH301		THERMISTOR	10k	
C459	NBE21AM-106X	TAN.CAPACITOR	10	10V		NAD0002-103X	THERMISTOR	10k	
C460	NCB31HK-103X	CER.CAPACITOR	0.01	50V	TH401	NAD0002-103X	THERMISTOR	10k	
C461	NBE21AM-106X	TAN.CAPACITOR	10	10V	TH402	NAD0002-103X	THERMISTOR	10k	
C463	NBE21EM-105X	TAN.CAPACITOR	1	25V		PGZ01932-011Z	CONNECTOR	11PIN	
C464	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	CN501	PGZ01932-022Z	CONNECTOR	22PIN	
C465	NBE41CM-106X	TAN.CAPACITOR	10	16V		PGZ01932-008Z	CONNECTOR	8PIN	
C466	NBE41CM-106X	TAN.CAPACITOR	10	16V		SCV2596-030W	CONNECTOR	30PIN	
C467	NCB31HK-103X	CER.CAPACITOR	0.01	50V		PGZ01932-020Z	CONNECTOR	20PIN	
C468	NCB31HK-103X	CER.CAPACITOR	0.01	50V	1				
C469	NDC31HJ-680X	CER.CAPACITOR	68p	50V	TP	SSV1096-001	TEST POINT	TP101-TP	525
				16V		557 1055-001	.20, . 0,111	1	
C471	NCF31CZ-104X	CER.CAPACITOR	0.1		∆CP801	ICP-S1.0TN	ICP	}	
C472	NCF31CZ-104X	CER.CAPACITOR	0.1	16V					
C501	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	∆CP802	ICP-S1.0TN ICP-S0.5TN	ICP ICP		
C502	NCF31CZ-104X	CER.CAPACITOR	0.1	16V					
C503	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	FL301	PGZ02180-W	FL FILTER		
C504	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	FL401	PGZ02180-W	FL FILTER	-1	
	1	100000000000000000000000000000000000000				<u> </u>			

tion	Symbol No.	Part No.	Part Name	Description
	IC1	TC7W126FU-X	I.C.(M)	TOSHIBA
	IC2	TC7W74F-X	I.C.(M)	TOSHIBA
	IC3	TC7W74F-X	I.C.(M)	TOSHIBA
	IC4	TC4S584F-X	I.C.(M)	TOSHIBA
	IC5	TC4S584F-X	I.C.(M)	TOSHIBA
	IC6		I.C.(M)	NEC
		UPD71055GB-10		TOSHIBA
	IC7	TC74HC138AF-X	I.C.(M)	TOSHIBA
	IC8	TC7S04F-X	I.C.(M)	
	IC9	PLSL1019	I.C.(M)	JVC
	1C9	PLSL1040	I.C.(M)	JVC
	SK9	SCV1841-028	IC SOCKET	FOR IC9
	IC10	TC4W53F-X	I.C.(M)	TOSHIBA
	IC11	S-8054HN-CB-X	I.C.(M)	SEIKO
	IC12	TC4S584F-X	I.C.(M)	TOSHIBA
	IC13	AN77L05M-X	I.C.(M)	MATSUSHITA
	IC14	SC78148GF-026	I.C.(M)	NEC
	IC15	S-8054HN-CB-X	I.C.(M)	SEIKO
	IC16	TC4S584F-X	I.C.(M)	TOSHIBA
	IC17	TC74HC573AF-X	I.C.(M)	TOSHIBA
	IC18	TC4W53F-X	I.C.(M)	TOSHIBA
	IC19	BA10358F-X	I.C.(M)	ROHM
	IC20	BA10358F-X	I.C.(M)	ROHM
	IC21	BA6285FP-X	I.C.(M)	ROHM
	IC22	BA10358F-X	I.C.(M)	ROHM
	IC23	TC4066BF-X	I.C.(M)	TOSHIBA
	IC24	NJM2068M-D-X	I.C.(M)	JRC
	IC25	BA10393F-X	I.C.(M)	ROHM
	IC26	NJM2068M-D-X	I.C.(M)	JRC
	IC27	BA10393F-X	I.C.(M)	ROHM
	IC28	TC4S30F-X	I.C.(M)	TOSHIBA
	IC29	TC4S30F-X	I.C.(M)	TOSHIBA
	IC30	TC7W74F-X	I.C.(M)	TOSHIBA
	IC31	BA6862FS-X	I.C.(M)	ROHM
	- IC32	BA7043FS-X	I.C.(M)	ROHM
	IC33	TC7W00F-X	I.C.(M)	TOSHIBA
	IC34	BR24C02F-X	I.C.(M)	ROHM
	IC35	BA10358F-X	I.C.(M)	ROHM
	IC36	AN77L05M-X	I.C.(M)	MATSUSHITA
	IC37	AN77L05M-X	I.C.(M)	MATSUSHITA
	IC38	AN77L05M-X	I.C.(M)	MATSUSHITA
	IC39	AN77L05M-X	I.C.(M)	MATSUSHITA
	IC501	MB3782PF-X	I.C.(M)	FUJITSU
	IC502	MB3782PF-X	I.C.(M)	FUJITSU
	IC503	BA10358F-X	I.C.(M)	ROHM
	IC504	MB3782PF-X	I.C.(M)	FUJITSU
	IC505	AN77L05M-X	I.C.(M)	MATSUSHITA
	Q1	2SC4081/QRS/-X	TRANSISTOR	ROHM
	03	2SB1073/PQ/-X	TRANSISTOR	MATSUSHITA
	Q3	DTC114EUA-X	TRANSISTOR	ROHM
	Q5	DTA114EUA-X	TRANSISTOR	ROHM
-	06	DTC124EUA-X	TRANSISTOR	ROHM
			TRANSISTOR	ROHM
	07	DTA114EUA-X		ROHM
	Q8	DTA114EUA-X DTC114EUA-X	TRANSISTOR TRANSISTOR	ROHM
16V	Q9		TRANSISTOR	TOSHIBA
16V	Q10 Q12	2SC2873/Y/-X FMG1A-W	TRANSISTOR	ROHM
1/16W	Q13	FMC2A-X	TRANSISTOR	ROHM
1/16W	Q14	DTC124EUA-X	TRANSISTOR	ROHM
1/16W	Q15	FMC2A-X	TRANSISTOR	ROHM
1/16W	Q16	DTA114EUA-X	TRANSISTOR	ROHM
1/16W	Q17	2SC4081/QRS/-X	TRANSISTOR	ROHM
1/16W	Q18	2SC4081/QRS/-X	TRANSISTOR	ROHM
1/16W	019	DTC114EUA-X	TRANSISTOR	ROHM
1/16W	Q20	2SC4081/QRS/-X	TRANSISTOR	ROHM
1/16W	Q21	DTA124EUA-X	TRANSISTOR	ROHM
1/16W	022	2SB1073/PQ/-X	TRANSISTOR	MATSUSHITA
	Q23	DTC114EUA-X	TRANSISTOR	ROHM
	Q24	FMG1A-W	TRANSISTOR	ROHM
	Q25	2SC4081/QRS/-X	TRANSISTOR	ROHM

Symbol No.	Part No.	Part Name	Description	n
K101 K102 K103	PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS		
K104	PGZ00627Z	FERRATE BEADS		
K105	PGZ00627Z	FERRATE BEADS		
K201	PGZ00627Z	FERRATE BEADS		
K202	PGZ00627Z	FERRATE BEADS		
K203	PGZ00627Z	FERRATE BEADS		
K204	PGZ00627Z	FERRATE BEADS		
K205	PGZ00627Z	FERRATE BEADS		
K301	PGZ00627Z	FERRATE BEADS		
K303	PGZ00627Z	FERRATE BEADS		
K304	PGZ00627Z	FERRATE BEADS		
K305	PGZ00627Z	FERRATE BEADS		
K306	PGZ00627Z	FERRATE BEADS		
K307	PGZ00627Z	FERRATE BEADS		
K308	PGZ00627Z	FERRATE BEADS		
K309	PGZ00627Z	FERRATE BEADS		
K401	PGZ00627Z	FERRATE BEADS		
K403	PGZ00627Z	,		
K404	PGZ00627Z PGZ00627Z	FERRATE BEADS		
K405		FERRATE BEADS		
K406 K407	PGZ00627Z PGZ00627Z	FERRATE BEADS		
	PGZ00627Z	FERRATE BEADS		
K408		FERRATE BEADS		
K409	PGZ00627Z	FERRATE BEADS		
K501	PGZ00627Z	FERRATE BEADS		
K502	PGZ00627Z	FERRATE BEADS		
K503 K504	PGZ00627Z PGZ00627Z	FERRATE BEADS		
		EEDDATE DEADC		
K505	PGZ00627Z	FERRATE BEADS	'	
K506	PGZ00627Z	EMI FILTER		
K507	PGZ01823-121AZ	EMI FILTER	.	
K508	PGZ01823-121AZ	EMI FILTER		
K509	PGZ01823-121AZ	EMI FILTER		
K510	PGZ01823-121AZ	EMI FILTER		
K511	PGZ01823-121AZ			
K512	PGZ01823-121AZ	EMI FILTER		
K513 K514	PGZ01823-121AZ PGZ01823-121AZ	EMI FILTER		
N514	FG201023-121A2			
K801	PGZ00627Z	FERRATE BEADS		
K802	PGZ00627Z	FERRATE BEADS		
K803	PGZ00627Z	FERRATE BEADS		
K804	PGZ00627Z	FERRATE BEADS		
K805	PGZ00627Z	FERRATE BEADS	ŀ	
K806	PGZ00627Z	FERRATE BEADS		
K807	PGZ00627Z	FERRATE BEADS		
K808	PGZ00627Z	FERRATE BEADS		
K809	PGZ00627Z	FERRATE BEADS		
Т	PGZ02198-02Z	COIL	T101-T801	
	DED CUE D	OADD ACCEMPL		
iC41	- RFP SUB B	OARD ASSEMBL	INEC	
1041	Gr 040/4G2-∧	1.0.(141)		
C41	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C42	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
R31	NRSA63J-272	M.G.RESISTOR	2.7k 1	/16W
R32	NRSA63J-332	M.G.RESISTOR		/16W
R33	NRSA63J-153	M.G.RESISTOR		/16W
R34	NRSA63J-223	M.G.RESISTOR		/16W
R35	NRSA63J-332	M.G.RESISTOR	1	/16W
R41	NRSA63J-332	M.G.RESISTOR		/16W
R42	NRSA63J-332	M.G.RESISTOR		/16W
R42	NRSA63J-153	M.G.RESISTOR		/16W
R44	NRSA63J-193	M.G.RESISTOR		/16W
R44 R45	NRSA63J-223 NRSA63J-332	M.G.RESISTOR		/16W
	AAA 1 EOLAIV T	DIODE	IMMEDICALIA	
D31 D41	MA152WK-T MA152WK-T	DIODE	MATSUSHITA MATSUSHITA	

Symbol No.	Part No.	Part Name	Descript		mbol No.	Part No.
Q26	2SB1073/PQ/-X	TRANSISTOR	MATSUSHITA	F	311	NRSA63J-104X
Q27	2SB1073/PQ/-X	TRANSISTOR	MATSUSHITA		312	NRSA63J-104X
		TRANSISTOR	MATSUSHITA		313	NRSA63J-104X
Q28	2SB1073/PQ/-X				314	NRSA63J-391X
Q29	2SC4081/QRS/-X	TRANSISTOR	ROHM			•
Q501	2SJ279S-X	FET	HITACHI		315	NRSA63J-473X
Q502	DTC124EUA-X	TRANSISTOR	ROHM	1 1	316	NRSA63J-681X
Q505	2SJ279S-X	FET	HITACHI		317	NRSA63J-103X
				F	318	NRSA63J-103X
Q506	2SC4097/QR/-X	TRANSISTOR	ROHM	F	319	NRSA63J-103X
Q507	2SA1577/QR/-X	TRANSISTOR	ROHM		320	NRSA63J-102X
Q508	2SJ279S-X	FET	HITACHI			
Q509	2SC4097/QR/-X	TRANSISTOR	ROHM		R21	NRSA63J-103X
					322	NRSA63J-271X
Q510	2SA1577/QR/-X	TRANSISTOR	ROHM			NRSA63J-104X
Q511	2SJ279S-X	FET	HITACHI	1 1	323	
Q512	2SC4097/QR/-X	TRANSISTOR	ROHM		R24	NRSA63J-563X
Q513	2SA1577/QR/-X	TRANSISTOR	ROHM		R25	NRSA63J-563X
Q514	2SJ279S-X	FET	HITACHI		R26	NRSA63J-563X
Q515	2SC4097/QR/-X	TRANSISTOR	ROHM		R27	NRSA63J-103X
0010	200-100//4/1/ //	17.0.1070701	1		R28	NRSA63J-103X
0510	00A1E77/00/V	TRANSISTOR	DOMM		R29	NRSA63J-103X
Q516	2SA1577/QR/-X	TRANSISTOR	ROHM			
Q518	2SJ279S-X	FET	HITACHI	'	R30	NRSA63J-103X
Q519	2SC4097/QR/-X	TRANSISTOR	ROHM			
Q520	2SA1577/QR/-X	TRANSISTOR	ROHM		R31	NRSA63J-681X
Q521	2SJ279S-X	FET	HITACHI		R32	NRSA63J-821>
Q522	2SC4097/QR/-X	TRANSISTOR	ROHM		R33	NRSA63J-102>
Q523	2SA1577/QR/-X	TRANSISTOR	ROHM		R34	NRSA63J-681>
	2SJ279S-X	FET	HITACHI		R35	NRSA63J-821X
Q525						
Q526	2SC4097/QR/-X	TRANSISTOR	ROHM		R36	NRSA63J-102>
Q527	2SA1577/QR/-X	TRANSISTOR	ROHM		R37	NRSA63J-104X
					R38	NRSA63J-102>
Q528	2SA1577/QR/-X	TRANSISTOR	ROHM		R39	NRSA63J-103X
Q529	2SC4097/QR/-X	TRANSISTOR	ROHM		R40	NRSA63J-104X
		FET	HITACHI	1 1		1111071000 1017
Q533	2SJ279S-X			11,	D 41	NIDEAGO L 121V
Q534	2SC4097/QR/-X	TRANSISTOR	ROHM		R41	NRSA63J-121)
Q535	2SA1577/QR/-X	TRANSISTOR	ROHM	1 1	R42	NRSA63J-222>
					R43	NRSA63J-472X
					R44	NRSA63J-472X
D1	MA738-X	DIODE	MATSUSHITA		R45	NRSA63J-104X
D2	MA3120/M/-X	ZENER DIODE	MATSUSHITA		R46	NRSA63J-562X
D3	MA3130/M/-X	ZENER DIODE	MATSUSHITA	111	R47	NRSA63J-102X
D4	DAP202U-X	DIODE	ROHM		R48	NRSA63J-224X
			ROHM	1 1 1	R49	NRSA63J-102>
D5	DAN202U-X	DIODE	1		-	
D6	DAN202U-X	DIODE	ROHM		R50	NRSA63J-104X
D7	DAN202U-X	DIODE	ROHM	1 1		
D8	DAN202U-X	DIODE	ROHM	- 1 1 1	R51	NRSA63J-102>
D9	1SS133	DIODE	ROHM	1	R53	NRSA63J-474>
D11	DAP202U-X	DIODE	ROHM		R54	NRSA63J-104>
	D711 2020 X	5.052			R55	NRSA63J-394X
D12	DAN202U-X	DIODE	ROHM	1 1 .	R56	NRSA63J-272
			MATSUSHITA	1 1	R57	NRSA63J-681>
D13	MA3020-X	ZENER DIODE		1 1		
D14	DAN202U-X	DIODE	ROHM		R58	NRSA63J-333X
D15	MA3075/M/-X	ZENER DIODE	MATSUSHITA		R59	NRSA63J-472
D16	MA3091/M/-X	ZENER DIODE	MATSUSHITA		R60	NRSA63J-104>
D19	MA3091/M/-X	ZENER DIODE	MATSUSHITA		R61	NRSA63J-223
D20	DAN202U-X	DIODE	ROHM			
D502	MA736-X	DIODE	MATSUSHITA		R62	NRSA63J-472
D502	MA736-X	DIODE	MATSUSHITA		R63	NRSA63J-472
			MATSUSHITA		R64	NRSA63J-473
D504	MA736-X	DIODE	IVIAI SUSTIIIA			
					R65	NRSA63J-473
D506	MA736-X	DIODE	MATSUSHITA		R66	NRSA63J-393>
D507	MA736-X	DIODE	MATSUSHITA		R67	NRSA63J-153>
D508	MA3056/M/-X	DIODE	MATSUSHITA		R68	NRSA63J-103X
D509	MA736-X	DIODE	MATSUSHITA	1 1 1	R69	NRSA63J-102
			MATSUSHITA		R70	NRS144J-2R2
D511	MA736-X	DIODE		1 1		
D512	DA114-X	DIODE	ROHM		R71	NRS144J-1R0
D514	MA736-X	DIODE	MATSUSHITA			
D515	DA114-X	DIODE	ROHM		R72	NRSA63J-222)
				. [] [R73	NRSA63J-472)
					R74	NRSA63J-472
R1	NRS AGOLION	M.G.RESISTOR	100k		R75	NRSA63J-183
	NRSA63J-104X			.,	R76	NRSA63J-823
R2	NRSA63J-101X	M.G.RESISTOR	100			
R3	NRSA63J-101X	M.G.RESISTOR	100		R77	NRSA63J-223
R4	NRSA63J-101X	M.G.RESISTOR	100		R78	NRSA63J-332
R5	NRSA63J-473X	M.G.RESISTOR	47k	1/16W	R79	NRSA63J-273
R6	NRSA63J-473X	M.G.RESISTOR	47k		R80	NRSA63J-473
		M.G.RESISTOR	47k		R81	NRSA63J-102
	NRSA63J-473X		I		1101	1110/1000-102/
R7		M.G.RESISTOR	47k	1/16W		
R8	NRSA63J-473X					
R8 R9	NRSA63J-104X	M.G.RESISTOR	100k		R82	
R8				1/16W	R82 R83 R84	NRSA63J-104) NRSA63J-103) NRSA63J-472)

Symbol No.	Part No.	Description		
R11	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R12	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R13	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
			390	-
R14	NRSA63J-391X	M.G.RESISTOR	47k	1/16W
R15	NRSA63J-473X	M.G.RESISTOR	7	1/16W
R16	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R17	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R18	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R19	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R20	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R21	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R22	NRSA63J-271X	M.G.RESISTOR	270	1/16W
R23	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R24	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R25	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R26	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R27	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R28	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R29	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R30	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
D21	NIDCAGO I GOTV	M.G.RESISTOR	680	1/16W
R31 R32	NRSA63J-681X NRSA63J-821X	M.G.RESISTOR	820	1/16W
R33	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R34	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R35	NRSA63J-821X	M.G.RESISTOR	820	1/16W
R36	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R37		M.G.RESISTOR	100k	1/16W
R37	NRSA63J-104X NRSA63J-102X	M.G.RESISTOR	1k	1/16W
			10k	1/16W
R39	NRSA63J-103X	M.G.RESISTOR	100k	1/16W
R40	NRSA63J-104X	M.G.RESISTOR	100k	1/1000
R41	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R42	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R43	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R44	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R45	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R46	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R47	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R48	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R49	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R50	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R51	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R53	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R54	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
	NRSA63J-394X	M.G.RESISTOR	390k	1/16W
R55		M.G.RESISTOR	2.7k	1/16W
R56	NRSA63J-272X		680	1/16W
R57	NRSA63J-681X	M.G.RESISTOR		
R58	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R59	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R60 R61	NRSA63J-104X NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	100k 22k	1/16W 1/16W
1101	11100000-2200	WI, G. I LEGIOT OIL		17 1011
R62	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R63	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R64	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R65	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R66	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R67	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R68	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R69	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R70	NRS144J-2R2X	M.G.RESISTOR	2.2	1/4W
R71	NRS144J-1R0X	M.G.RESISTOR	1	1/4W
R72	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R73	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R74	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R75	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R76	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R77	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R78	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R79	NRSA63J-332X	M.G.RESISTOR	27k	1/16W
	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R80 R81	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R82	NRSA63J-104X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	100k 10k	1/16W 1/16W
R83				

Come !!				 1	Symbol		Doct Name		Deceriation
Symbol No.	Part No.	Part Name	De	escription	No.	Part No.	Part Name		Description
R85	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W	R161	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R86	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	R162	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R87	NRSA63J-393X	M.G.RESISTOR	39k	1/16W	R163	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R88	NRSA63J-102X	M.G.RESISTOR	. 1k	1/16W	R164	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R89	NRSA63J-223X	M.G.RESISTOR	22k	1/16W				5 O	1/10\4/
R90	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R165	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R91	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R166	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
					R167	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R92	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R168	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R93	NRSA63J-4R7X	M.G.RESISTOR	4.7	1/16W	R169	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R94	NRSA63J-123X	M.G.RESISTOR	12k	1/16W	R170	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R95	NRSA63J-154X	M.G.RESISTOR	150k	1/16W	R171	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R99	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R172	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R100	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R173	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R101	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R174	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R102	NRSA63J-102X	M.G.RESISTOR	1k	1/16W			A O DECICTOR	E 61.	1/16W
R103	NRSA63J-333X	M.G.RESISTOR	33k	1/16W	R175	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R104	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R176	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
			1		R177	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R105	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R178	NRSA63J-222X	M.G.RESISTOR	2.2k	
R106	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R179	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R107	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R180	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R108	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R181	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R109	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R182	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R110	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R183	NRSA63J-103X	M.G.RESISTOR	10k	1/16W 1/16W
R111	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R184	NRSA63J-103X	M.G.RESISTOR	10k	1/1000
R112	NRSA63J-101X	M.G.RESISTOR	100	1/16W			110 0500500	1001	1/16W
R113	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R185	NRSA63J-184X	M.G.RESISTOR	180k	
R114	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R186	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
					R187	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R115	NRSA63J-471X	M.G.RESISTOR	470	1/16W	R188	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R116	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R189	NRS144J-1R0X	M.G.RESISTOR	1	1/4W
R117	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R190	NRS144J-2R2X	M.G.RESISTOR	2.2	1/4W
R118	NRSA63J-105X	M.G.RESISTOR	1M	1/16W	R191	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R119	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R192	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R120	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R193	NRSA63J-124X	M.G.RESISTOR	120k	1/16W
R121	NRSA63J-101X	M.G.RESISTOR	100	1/16W	R194	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R122	NRSA63J-101X	M.G.RESISTOR	100	1/16W					4.44.0\4/
R123	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R195	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R124	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R196	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
					R197	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R125	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R198	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R126	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R199	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R127	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R201	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R128	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R202	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R129	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R203	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R130	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R204	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R131	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R205	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R132	NRSA63J-102X	M.G.RESISTOR	1k	1/16W			AA O DECICTOR	0.01	1/16\4/
R133	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R206	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R134	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R207	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
					R208	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R135	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R209	NRSA63J-103X	M.G.RESISTOR	10k	1/16W 1/16W
R136	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R210	NRSA63J-104X	M.G.RESISTOR	100k	
R137	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R211	NRSA63J-102X	M.G.RESISTOR	1k 100	1/16W 1/16W
R138	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R212	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R139	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R213	NRSA63J-101X	M.G.RESISTOR	4.7k	1/16W
R140	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R501	NRSA63J-472X	M.G.RESISTOR	15k	1/16W
R141	NRSA63J-104X	M.G.RESISTOR	100k	1/16W	R502	NRSA63F-153X	M.G.RESISTOR	IDK	171044
R142	NRSA63J-681X	M.G.RESISTOR	680	1/16W			A A O DECISION	0.01	1 /1 6\4/
R143	NRSA63J-681X	M.G.RESISTOR	680	1/16W	R503	NRSA63F-222X	M.G.RESISTOR	2.2k	1/16W
R144	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R504	NRSA63F-222X	M.G.RESISTOR	2.2k	1/16W
		i i	ŀ		R505	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R145	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R506	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R146	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R507	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R147	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R508	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R148	NRSA63J-102X	M.G.RESISTOR	1k	1/16W	R509	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R149	NRSA63J-561X	M.G.RESISTOR	560	1/16W	R510	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R150	NRSA63J-564X	M.G.RESISTOR	560k	1/16W	R511	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R151	NRSA63J-105X	M.G.RESISTOR	1 M	1/16W	R512	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R152	NRSA63J-102X	M.G.RESISTOR	1k	1/16W					
R153	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R514	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R154	NRSA63J-103X	M.G.RESISTOR	10k	1/16W	R515	NRSA63J-471X	M.G.RESISTOR	470	1/16W
			Į		R516	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R155	NRSA63J-103X	M.G.RESISTOR	10k	1/1.6W	R517	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R156	NRSA63J-100X	M.G.RESISTOR	10	1/16W	R518	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R157	NRSA63J-153X	M.G.RESISTOR	15k	1/16W	R519	NRSA63F-472X	M.G.RESISTOR	4.7k	1/16W
R158		M.G.RESISTOR	10k	1/16W	R520	NRSA63F-472X	M.G.RESISTOR	4.7k	1/16W
R159	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W	R521	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R160	NRSA63J-394X	M.G.RESISTOR	390k	1/16W	R522	NRSA63J-154X	M.G.RESISTOR	150k	1 / 16W

Symbol No.	Part No.	Part Name	Description
R523	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R524	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R525	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R526	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R527	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R528	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R529	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R530	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R531	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R532	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R533	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R534	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R535	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R536	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R537	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R538	NRSA63F-823X	M.G.RESISTOR	82k 1/16W
R539	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R540	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R541	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R542	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R544	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R545	NRSA63J-332X NRSA63J-682X	M.G.RESISTOR M.G.RESISTOR	3.3k 1/16W 6.8k 1/16W
R546		M.G.RESISTOR	10k 1/16W
R547	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R548	NRSA63J-103X		10k 1/16W
R549	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 1/16W
R550 R551	NRSA63J-103X NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R552	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R553	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R554	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
DEEE	NDCAGO LAZAV	M.G.RESISTOR	470 1/16W
R555	NRSA63J-471X	M.G.RESISTOR	10 1/16W
R556	NRSA63J-100X	M.G.RESISTOR	220k 1/16W
R557 R558	NRSA63J-224X NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R559	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R561	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R562	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R563	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R564	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R565	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R566	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R567	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R568	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R569	NRSA63F-222X	M.G.RESISTOR	2.2k 1/16W
R570	NRSA63F-332X	M.G.RESISTOR	3.3k 1/16W
R571	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R572	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R573	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R574 R575	NRSA63J-154X NRSA63J-472X	M.G.RESISTOR M.G.RESISTOR	150k 1/16W 4.7k 1/16W
R576	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R577	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R578	NRSA63J-273X	M.G.RESISTOR	27k 1/16W
R579	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R580	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R581	NRSA63J-100X	M.G.RESISTOR	10 1/16W
R582	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R583	NRSA63J-332X	M.G.RESISTOR	3.3k 1/16W
R584	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R585	NRSA63F-822X	M.G.RESISTOR	8.2k 1/16W
R587	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R588	NRSA63F-472X	M.G.RESISTOR	4.7k 1/16W
R589	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R590	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R591	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W
R592	NRSA63J-682X	M.G.RESISTOR	6.8k 1/16W
R596	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R597	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R598	NRSA63F-331X	M.G.RESISTOR	330 1/16W 27k 1/16W
R599	NRSA63F-273X	M.G.RESISTOR	27k 1/16VV
R600	NRSA63J-103X	M.G.RESISTOR	10k 1/16W 6.8k 1/16W
R601	NRSA63F-682X	M.G.RESISTOR	6.8k 1/16W

ymbol No.	Part No.	Part No. Part Name		Description
R603	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R604	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R605	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R606	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R607	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R608	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R609	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R610	NRSA63J-100X	M.G.RESISTOR	10	1/16W
VR501	NVP1415-103X	TRIM.RESISTOR	10k	SW FREQ VR
C1	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C2	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C3	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C4	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C5	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C6	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C7	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C8	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C9	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C10	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C11	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C12	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C13	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C14	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C15	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C16	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C17	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C18	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C19	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C20	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C21 C22	NCF31CZ-104X NCS31HJ-101X	CER.CAPACITOR	0.1 100p	16V 50V
C23	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C24	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C25	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C26	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C27	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C28	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C29	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C30	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C31	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C32	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C33	NCS31HJ-101X	CER.CAPACITOR	100p	5 0 V
C34	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C35	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C36	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C37	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C38	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C39 C40	NCS31HJ-101X NCS31HJ-101X	CER.CAPACITOR CER.CAPACITOR	100p 100p	50V 50V
C41	NBE21EM-105X	TAN.CAPACITOR	1	25V
C42	NCF31CZ-104X	CER.CAPACITOR	0.1	167
C43	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C44	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C45	NCF31CZ-104X	CER.CAPACITOR	0.1	167
C45 C46	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C46 C47	NCF31CZ-104X	CER.CAPACITOR	0.1	167
C47	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C48 C49	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C51	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C52	NCS31HJ-470X	CER.CAPACITOR	47p	50V
C53	NCS31HJ-270X	CER.CAPACITOR	27p	50 V
C54	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C55	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C56	NCB31CK-473X	CER.CAPACITOR	0.047	167
	NCB31CK-823X	CER.CAPACITOR	0.082	16V
C57			0.082	16V
C57 C58	NCB31CK-823X	I CER, CAPACITOR	IV.UDZ	104
C58	NCB31CK-823X NCB31HK-472X	CER.CAPACITOR CER.CAPACITOR	1	50V
C57 C58 C59 C60			4700p 4700p	

0.047

CER.CAPACITOR

NCB31CK-473X

Symbol No.	Part No.	Part Name	Descri	ption	Sy
C63	NCB31CK-273X	CER.CAPACITOR	0.027	16V	
C64	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	(
C65	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C66	NCB31CK-473X	CER.CAPACITOR	0.047	16V	
C67	NCB31CK-473X	CER.CAPACITOR	0.047	16V	
C68	NCF31CZ-104X	CER.CAPACITOR	0.1	16V 16V	(
C69	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C70	NCF31CZ-104X NCS31HJ-8R0X	CER.CAPACITOR CER.CAPACITOR	8p	50V	
C71	NC331HJ-BHUX				
C72	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1	16V 50V	
C73 C74	NCB31HK-103X NCB31HK-103X	CER.CAPACITOR	0.01	50V	
C75	NCB31HK-102X	CER.CAPACITOR	1000p	50V	
C76	NCB31HK-102X	CER.CAPACITOR	1000p	50V	- (
C82	NCS31HJ-561X	CER.CAPACITOR	560p	50V	(
C83	QFHA1JJ-333	M.M.CAPACITOR	0.033	63V	(
C84	NCB31HK-392X	CER.CAPACITOR	3900p	50V	
C85	NEH91CM-106X	E.CAPACITOR	10	16V	
C86	NEH91AM-336X	E.CAPACITOR	33	10V	
C87	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C88	NCB31HK-102X	CER.CAPACITOR	1000p 0.1	50V 16V	
C89	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	1000p	50V	
C90	NCB31HK-102X NCS31HJ-470X	CER.CAPACITOR	47p	50V	
C91 C92	NCS31HJ-271X	CER.CAPACITOR	270p	50V	
C93	NCB31CK-473X	CER.CAPACITOR	0.047	16V	
C94	NEN21AM-106X	N.P.CAPACITOR	10	10V	
C95	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C96	NEH91AM-336X	E.CAPACITOR	33	10V	
C97	NBE51AM-476X	TAN.CAPACITOR	47	10V	
C98	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	1 1
C99	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C100	NBE21EM-105X	TAN.CAPACITOR	0.1	25V 16V	
C101	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	1000p	50V	
C102 C103	NCB31HK-102X NCS31HJ-330X	CER.CAPACITOR	33p	50V	i i
C103	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C105	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C106	NEH91AM-336X	E.CAPACITOR	33	10V	
C107	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C108	NBE21EM-105X	TAN.CAPACITOR	1	25V	1 1
C109	NCB31HK-102X	CER.CAPACITOR	1000p	50V	1
C110	NCS31HJ-330X	CER.CAPACITOR	33p 0.1	50V 16V	
C111	NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	100p	. 50V	11
C112 C113	NCS31HJ-101X NCS31HJ-101X	CER.CAPACITOR	100p	50V	11
C113	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	!
C115	NBE41CM-106X	TAN.CAPACITOR	10	16V	1 1
C116	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C117	NCB31EK-153X	CER.CAPACITOR	0.015	25V	
C118	NCB31CK-273X	CER.CAPACITOR	0.027	16V	
C119	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C120	NEN21HM-224X	N.P.CAPACITOR	0.22	50V	
C121	NEN21HM-224X	N.P.CAPACITOR	0.22	50V 50V	
C122	NEN21HM-224X	N.P.CAPACITOR CER.CAPACITOR	0.022	25V	
C123 C124	NCB31EK-223X NCB31EK-223X	CER.CAPACITOR	0.022	25V	
C124		CER.CAPACITOR	0.022	25V	1 1
C126		CER.CAPACITOR	0.1	25V	
C127	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C127		E.CAPACITOR	33	10V	
C129		CER.CAPACITOR	0.1	16V	
C130		E.CAPACITOR	47	16V	
C131	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C132	NEH91EM-336X	E.CAPACITOR	33	25V	
C133		CER.CAPACITOR	0.1	16V 25V	
C134		E.CAPACITOR CER.CAPACITOR	33 1000p	25V 50V	1
C135 C136		E.CAPACITOR	1000p	16V	
		CER.CAPACITOR	0.33	16V	
C137 C138		E.CAPACITOR	10	16V	
C139	NCF31CZ-334X	CER.CAPACITOR	0.33	16V	
C140	NEH91CM-106X	E.CAPACITOR	10	16V	JL

Symbol No.	Part No.	Part Name	Description
C141 C142 C143 C144 C145 C146	NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NEH91AM-336X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR	0.1 16V 0.1 16V 0.1 16V 0.1 16V 0.1 16V 33 10V
C147 C148 C149 C150 C151 C152 C153 C154 C155 C156	NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 0.1 16V
C157 C158 C159 C160 C161 C162 C163 C164 C165 C501	NBE41CM-106X NCF31CZ-334X NEH91CM-106X NCF31CZ-334X NEH91CM-106X NCF31CZ-334X NEH91CM-106X NEH91CM-106X NCF31CZ-104X NEX11DM-476X	TAN.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	10 16V 0.33 16V 10 16V 0.33 16V 10 16V 0.33 16V 10 16V 10 16V 0.1 16V 47 20V
C504 C505 C506 C507 C508 C509 C510 C511 C512 C513	NBE21EM-105X NCF31CZ-104X NCB31EK-822X NCB31EK-822X NBE21EM-105X NEX11DM-476X NCF31CZ-104X NEX11DM-476X NEX11DM-476X NEX11AM-476X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR CER.CAPACITOR E.CAPACITOR E.CAPACITOR CECAPACITOR CECAPACITOR	1 25V 0.1 16V 8200p 25V 8200p 25V 1 25V 47 20V 47 20V 47 10V 0.1 16V
C514 C515 C516 C517 C518 C519 C520 C521 C524 C525	NEX11AM-476X NCF31CZ-104X NCB31HK-102X NCB31EK-822X NBE21EM-105X NEX11AM-476X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X NCB31HK-103X	E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	47 10V 0.1 16V 1000p 50V 8200p 25V 1 25V 47 10V 0.1 16V 47 10V 0.1 16V 0.01 50V
C526 C527 C528 C529 C530 C531 C532 C533 C534 C535	NBE21EM-105X NBE21EM-105X NCF31CZ-104X NEX11DM-476X NCF31CZ-104X NCB31HK-103X NBE21EM-105X NEX11DM-476X NCB31HK-102X NCB31HK-102X NCR21CK-563X	TAN.CAPACITOR TAN.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 25V 1 25V 0.1 16V 47 20V 0.1 16V 0.01 50V 1 25V 47 20V 1000p 50V 0.056 16V
C536 C537 C538 C540 C541 C542 C543 C544 C545 C546	NCF31CZ-104X NEX11DM-476X NEX11DM-476X NCF31CZ-104X NBE21EM-105X NEX10JM-476X NCF31CZ-104X NEX10JM-476X NCB31EK-822X NCB31EK-822X NCB31EK-822X	CER.CAPACITOR E.CAPACITOR E.CAPACITOR CER.CAPACITOR TAN.CAPACITOR E.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 16V 47 20V 47 20V 0.1 16V 47 6.3V 0.1 16V 47 6.3V 8200p 25V
C547 C548 C549 C550 C551 C552 C553	NBE21EM-105X QETC1JM-106Z NCF21HZ-104X QETC1JM-106Z NCS31HJ-471X NCS31HJ-471X NCF21HZ-104X	TAN.CAPACITOR E.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 25V 10 63V 0.1 50V 10 63V 470p 50V 470p 50V 0.1 50V

Symbol No.	Part No.	Part Name	Desc	ription
C554 C555 C556	NCF21HZ-104X NCF31CZ-104X NCB31EK-822X	CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.1 0.1 8200p	50V 16V 25V
C557 C560 C561 C562 C563 C564 C565 C566	NBE21EM-105X NCF21HZ-104X NEX10JM-476X NCF31CZ-104X NEX10JM-476X NCF31CZ-104X NEH91CM-106X NCF31CZ-334X	TAN.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 0.1 47 0.1 47 0.1 10 0.33	25V 50V 6.3V 16V 6.3V 16V 16V
L1 L2 L3 L4 L5 L6 L7 L8 L9	NOL114K-100X NOR0181-001X NOE114K-100X NOL114K-100X NOL114K-100X NOL114K-100X NOL114K-100X NOL114K-100X NOL114K-100X NOL114K-100X NOL114K-100X	COIL COIL COIL COIL COIL COIL COIL COIL	10uH 10uH 10uH 10uH 10uH 10uH 10uH	
L11 L12 L501 L502 L503 L504 L505 L506 L507 L508	NQL114K-100X NQL114K-100X NQL26CK-330X NQL25CM-470X NQL23CM-330X NQL25CM-330X NQL23CM-330X NQL23CM-330X NQL24CN-470X NQL23CM-330X NQL24CN-470X	COIL COIL COIL COIL COIL COIL COIL COIL	10uH 10uH 33uH 47uH 33uH 33uH 33uH 47uH 33uH	
L509 L510 L511 L512 L516 L517 L520	NQL24CN-470X NQL25CM-470X NQL25CM-330X SSV2810-330V NQL25CM-330X SSV2810-330V SSV2810-330V	COIL COIL COIL COIL COIL COIL COIL	47uH 47uH 33uH 33uH 33uH 33uH 33uH	
X1	PGZ02200-002	CRYSTAL	12MHz	
TH1	QAD0057-1R0	THERMISTOR	1	
S1 S2	SSV2664 SSV2664	SLIDE SWITCH SLIDE SWITCH	PAL/NTSC TEST MODE	ON/OFF
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10	SCV2596-030W PGZ02149-102Z PGZ01932-010Z PGZ01932-022Z SSV2637-L03 SSV2637-L08 PGZ01932-011Z PGZ01932-010Z PGZ02149-008Z	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	30PIN 2PIN 10PIN 22PIN 2PIN 3PIN 8PIN 11PIN 10PIN 8PIN	
CN11 CN12 CN13 CN15	PGZ01932-024Z SCV2596-030W SCV2596-030W SSV2637-L07	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	24PIN 30PIN 30PIN 7PIN	
TP	SSV1096-001	TEST POINT	TP1-TP507	
ДСР501 ДСР502 ДСР503 ДСР504 ДСР505	ICP-S1.0TN ICP-S0.5TN ICP-S1.0TN ICP-S0.5TN ICP-S1.0TN	ICP ICP ICP ICP		

Symbol No.	Part No.	Part Name	Description
	ICP-S1.0TN	ICP	
	ICP-S0.5TN	ICP	
K1	PGZ00627Z	FERRATE BEADS	
K2	PGZ00627Z	FERRATE BEADS	
K3	PGZ00627Z	FERRATE BEADS	
K4	PGZ00627Z	FERRATE BEADS	
T501	NQR0183-001X	TRANS	
TB	PGZ02228	EARTH LUG	TB1-TB5
'-			
1			
İ			
J			
1	ļ		
	İ		
	1		
	1		
ŀ			
1			
1			
1			
			·

6.6 PRE/REC BOARD ASSEMBLY PARTS LIST 0.6 SLK2048-01-01A

Symbol No.	Part No.	Part Name	Description	
IC101 IC201 IC202 IC203	AN3730FA AN3730FA AN77L03M-X DS90C032TM-X	I.C.(M) I.C.(M) I.C.(M) I.C.(M)	MATSUSHITA MATSUSHITA MATSUSHITA NATIONAL SEN	1ICO
IC204 IC205	TC74HC4040AF-X TC74VHC153F-X	I.C.(M) I.C.(M)	TOSHIBA	
Q101 Q102 Q103 Q104 Q105 Q106 Q201 Q202 Q203 Q204	XN4504-W 2SA1462/3-4/-X 2SC3937-X XN4504-W 2SA1462/3-4/-X 2SC3937-X XN4504-W 2SA1462/3-4/-X 2SC3937-X XN4504-W	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	MATSUSHITA NEC MATSUSHITA MATSUSHITA NEC MATSUSHITA NEC MATSUSHITA MATSUSHITA	
Q205 Q206 Q209 Q210 Q301 Q302 Q303 Q304 Q305 Q306	2SA1462/3-4/-X 2SC3937-X 2SA1577/QR/-X DTC114EUA-X 2SK621-X 2SK621-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SC3735/4-5/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	NEC MATSUSHITA ROHM ROHM MATSUSHITA MATSUSHITA ROHM ROHM NEC NEC	
Q307 Q308	2SC3735/4-5/-X 2SC3735/4-5/-X	TRANSISTOR TRANSISTOR	NEC NEC	
R101 R102 R103 R104 R105 R106 R107 R108 R109 R110	NRSA63J-202X NRSA63J-682X NRSA63J-182X NRSA63J-331X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-152X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	2k 6.8k 1.8k 330 47 1k 330 1k 1.5k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R111 R112 R113 R116 R117 R118 R119 R120 R121 R122	NRSA63J-152X NRSA63J-153X NRSA63J-681X NRSA63J-681X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-102X NRSA63J-331X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.5k 15k 680 680 1.5k 1.5k 1.5k 1.5k 1.5k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R123 R126 R127 R128 R129 R130 R131 R132 R201 R202	NRSA63J-102X NRSA63J-103X NRSA63J-272X NRSA63J-223X NRSA63J-100X NRSA63J-100X NRSA63J-080X NRSA63J-080X NRSA63J-080X NRSA63J-682X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1k 10k 2.7k 22k 10 10 0 0 0 2k 6.8k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R203 R204 R205 R206 R207 R208 R209 R210 R211 R212	NRSA63J-182X NRSA63J-331X NRSA63J-470X NRSA63J-102X NRSA63J-311X NRSA63J-102X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-153X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	1.8k 330 47 1k 330 1k 1.5k 1.5k 1.5k	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R213 R216	NRSA63J-681X NRSA63J-681X	M.G.RESISTOR M.G.RESISTOR	680 680	1/16W 1/16W

Symbol No.	Part No.	Part Name	Des	scription		
R217	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W		
R218	NRSA63J-153X	M.G.RESISTOR	15k	1/16W		
R219	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W		
R220	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W		
R221	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R222	NRSA63J-331X	M.G.RESISTOR	330	1/16W 1/16W		
R223 R226	NRSA63J-102X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	1k 10k	1/16W		
			0.71-	1/16\\		
R227 R228	NRSA63J-272X NRSA63J-223X	M.G.RESISTOR M.G.RESISTOR	2.7k 22k	1/16W 1/16W		
R229	NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R230	NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R231	NRSA63J-221X	M.G.RESISTOR	220	1/16W		
R232	NRSA63J-471X	M.G.RESISTOR	470	1/16W		
R235	NRSA63J-221X	M.G.RESISTOR	220	1/16W		
R238	NRSA63J-101X	M.G.RESISTOR	100	1/16W 1/16		
R240 R241	NRSA63J-332X NRSA63J-152X	M.G.RESISTOR M.G.RESISTOR	S3.3k 1.5k	1/16W		
		A C DECISEOD		1/16\\/		
R242	NRSA63J-0R0X	M.G.RESISTOR M.G.RESISTOR	100	1/16W 1/16W		
R244 R245	NRSA63J-101X NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R246	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R247	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R248	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R249	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R250	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R251	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R252	NRSA63J-101X	M.G.RESISTOR	100	1/16W		
R253	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		
R254	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		
R255	NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R256	NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R257	NRSA63J-100X	M.G.RESISTOR M.G.RESISTOR	10 10	1/16W 1/16W		
R258 R259	NRSA63J-100X NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R260	NRSA63J-103X	M.G.RESISTOR	10k	1/16W		
R261	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R262	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R263	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R264	NRSA63J-102X	M.G.RESISTOR	1k	1/ 1 6W		
R265	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R266	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R267	NRSA63J-102X	M.G.RESISTOR	1k 1k	1/16W 1/16W		
R268 R270	NRSA63J-102X NRSA63J-102X	M.G.RESISTOR M.G.RESISTOR	1k	1/16VV 1/16VV		
R271	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R274	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R275	NRSA63J-102X	M.G.RESISTOR	1k	1/16W		
R278	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		
R279	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W		
R282	NRSA63J-100X	M.G.RESISTOR	10	1/16W		
R283	NRSA63J-103X	M.G.RESISTOR	10k	1/16W		
R284	NRSA63J-103X	M.G.RESISTOR	10k	1/16W		
R285	NRSA63J-103X	M.G.RESISTOR	10k 10k	1/16W 1/16W		
R286	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k	1/16W		
R287 R301	NRSA63J-223X	M.G.RESISTOR	22k	1/16W		
R302	NRSA63J-223X	M.G.RESISTOR	22k	1/16W		
R303	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W		
R304	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W		
R305	NRSA63J-150X	M.G.RESISTOR	15	1/16W		
R306	NRSA63J-150X	M.G.RESISTOR	15	1/16W		
R307	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W		
R308	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W		
R309	NRSA63J-560X	M.G.RESISTOR	56 56	1/16W 1/16W		
R310	NRSA63J-560X NRSA63J-560X	M.G.RESISTOR M.G.RESISTOR	56	1/16W 1/16W		
R311 R312	NRSA63J-560X	M.G.RESISTOR	56	1/16W		
R313	NRSA63J-272X	M.G.RESISTOR	2.7k	· 1/16W		
R314	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W		
R315	NRSA63J-471X	M.G.RESISTOR	470	1/16W		
R316	NRSA63J-471X	M.G.RESISTOR	470	1/ 1 6W		
R317	NRSA63J-390X	M.G.RESISTOR	39	1/ 1 6W		
	1	. 1				

R318	Symbol No.	Part No.	Part Name	Description
R319	D210	VIBSA63 L390Y	M G RESISTOR	39 1/16W
R323				
R324 NRSA63J-103X M. G.RESISTOR 10k 1/16W				
R324 NRSA63J-103X M.G.RESISTOR 10k 1/16W R325 NRSA63J-0R0X M.G.RESISTOR 0 1/16W CT-10 NCB31HK-103X CER.CAPACITOR 0.01 50V CT-10 NCB31HK-152X CER.CAPACITOR 1500p 50V CT-10 NCB31HK-102X CER.CAPACITOR 1500p 50V CT-10 NCB31HK-102X CER.CAPACITOR 1000p 50V CT-10 NCB31HK-103X CER.CAPACITOR 1000p 50V CT-10 NCB31HK-103X CER.CAPACITOR 0.1 16V CT-10 NCB31HK-103X CER.CAPACITOR 0.1 16V CT-10 NCB31HK-103X CER.CAPACITOR 0.1 16V CT-10 NCB31HK-103X CER.CAPACITOR 0.1 16V CER.CAPACITOR				1 ** =
NRSA63J-0R0X M.G.RESISTOR 0 1/16W		1111011-1-1-1		
C101 NCB31HK-103X CER.CAPACITOR 0.01 50V CER.CAPACITOR 0.022 25V CER.CAPACITOR 1500p 50V CER.CAPACITOR	R324	NHSA63J-103X	M.G.RESISTOR	TUK 1/10VV
C102 NCB31HK-152X CER.CAPACITOR 1500p 50V CR C104 NDC31HA-102X CER.CAPACITOR 1500p 50V CR C105 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C106 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C106 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C108 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C108 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 10 NCB31HK-102X CR CAPACITOR 150p 50V CR C115 NCF31C2-104X CER.CAPACITOR 150p 50V CR C116 NCB31HK-102X CER.CAPACITOR 0.1 16V NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-102X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-102X CR CAPACITOR 10	R325	NRSA63J-0R0X	M.G.RESISTOR	o 1/16W
C102 NCB31HK-152X CER.CAPACITOR 1500p 50V CR C104 NDC31HA-102X CER.CAPACITOR 1500p 50V CR C105 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C106 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C106 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C108 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C108 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C109 NCB31HK-102X CER.CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 1000p 50V CR C112 NCB31HL-161X CR C2R CAPACITOR 10 NCB31HK-102X CR CAPACITOR 150p 50V CR C115 NCF31C2-104X CER.CAPACITOR 150p 50V CR C116 NCB31HK-102X CER.CAPACITOR 0.1 16V NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 1500p 50V NCB31HK-102X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-162X CR CAPACITOR 10 NCB31HK-102X CR CAPACITOR 10	C101	NCB31HK-103Y	CER CAPACITOR	0.01 50V
C103 NCB31HK-152X CER.CAPACITOR 1500p 50V CER.CAPACITOR 3p 50V CER.CAPACITOR 1000p 50V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 110 10V CER.CAPACITOR 1000p 50V CER.CAP				
C104 NDC31HJ38I0X CER.CAPACITOR 1000p 50V C106 NCB31HK-102X CER.CAPACITOR 1000p 50V C106 NCB31HK-102X CER.CAPACITOR 1000p 50V C108 NCB31HK-102X CER.CAPACITOR 1000p 50V C109 NCB31HK-102X CER.CAPACITOR 1000p 50V C109 NCB31HK-102X CER.CAPACITOR 1000p 50V C110 NBE21AM-106X TAN.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 110 10V C111 NCF31CZ-104X CER.CAPACITOR 110 10V C111 NCF31CZ-104X CER.CAPACITOR 110 10V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31HK-152X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 100 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR 1000p 50V C111 NCF31CZ-104X CER.CAPACITOR		ľ		
C106 NCB31HK-102X CER.CAPACITOR 1000p 50V CER.CAPACITO				1.000
C106 NCB31HK-102X CER.CAPACITOR 1000p 50V C107 NCB31HK-102X CER.CAPACITOR 1000p 50V C108 NCB31HK-102X CER.CAPACITOR 1000p 50V C109 NCB31HK-102X CER.CAPACITOR 1000p 50V C110 NBE21AM-106X TAN.CAPACITOR 10 10V CR. CAPACITOR 10V NCB31HK-102X CER.CAPACITOR 150p 50V CR. CAPACITOR 10V CR. CAPACITOR 10V CR. CAPACITOR 150p 50V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR. CAPACITOR 150V CR.				1-1-
C107 NCB31HK-102X CER.CAPACITOR 1000p 50V C109 NCB31HK-102X CER.CAPACITOR 1000p 50V C110 NBE21AM-106X TAN.CAPACITOR 1000p 50V C111 NCB31HK-102X CER.CAPACITOR 1000p 50V TAN.CAPACITOR 1000p 50V TAN.CAPACITOR 1000p 50V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 100 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 110 10V TAN.CAPACITOR 100 10V TAN.				
C108 NCB31HK-102X CER.CAPACITOR 1000p 50V CER.CAPACITOR 1000p 50V CER.CAPACITOR 1000p 50V CER.CAPACITOR 1000p 50V CER.CAPACITOR 1000p 50V CER.CAPACITOR 100V CER.CAPACITOR 100V CER.CAPACITOR 100V CER.CAPACITOR 150p 50V CER.CAPACITOR 150p 50V CER.CAPACITOR 150p 50V CER.CAPACITOR 150p 50V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 16V CER.CAPACITOR 1 10V				1000p
C109				
C110 NBE21AM-106X C111 NCF31CZ-104X C112 NCS31HJ-151X CER.CAPACITOR C113 NCF31CZ-104X CER.CAPACITOR C114 NBE21EM-105X C115 NCF31CZ-104X CER.CAPACITOR C116 NCB31HK-103X CER.CAPACITOR C117 NDC31HJ-330X CER.CAPACITOR C118 NBE21AM-106X C118 NBE21AM-106X C119 NCB31HK-152X CER.CAPACITOR C119 NCB31HK-152X CER.CAPACITOR C119 NCB31HK-152X CER.CAPACITOR C119 NCB31HK-152X CER.CAPACITOR C110 NDE21AM-106X C110 NDE21AM-106X C111 NDE21AM-106X C111 NDE21AM-106X C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-330X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-30X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C112 NDC31HJ-151X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C113 NDC71CZ-104X CER.CAPACITOR C114 NDE21AM-106X C115 NDC71CZ-104X CER.CAPACITOR C115 NDC71CZ-104X CER.CAPACITOR C116 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C11 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X CER.CAPACITOR C117 NDC71CZ-104X				
C111 NCF31CZ-104X CER.CAPACITOR 150p 50V C113 NCF31CZ-104X CER.CAPACITOR 150p 50V C114 NBE21EM-105X TAN.CAPACITOR 1 150p 50V C116 NCF31CZ-104X CER.CAPACITOR 0.1 16V C116 NCF31CZ-104X CER.CAPACITOR 0.1 16V C116 NCF31CZ-104X CER.CAPACITOR 0.1 16V C117 NDC31H-J330X CER.CAPACITOR 0.01 50V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C119 NCF31CZ-104X CER.CAPACITOR 10 10V C119 NCF31HK-152X CER.CAPACITOR 1500p 50V C120 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCF31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 10 10V C121 NCF31CZ-104X CER.CAPACITOR 10 10V C121 NCF31CZ-104X CER.CAPACITOR 10 10V C122 NDC31HJ-51X CER.CAPACITOR 10 10V C126 NCF31CZ-104X CER.CAPACITOR 10 25V C126 NCF31CZ-104X CER.CAPACITOR 10 1500p 50V C126 NCF31CZ-104X CER.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 1 125V C129 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NGF31CZ-104X CER.CAPACITOR 10 10V C131 NCF31CZ-104X CER.CAPACITOR 10 16V C131 NCF31CZ-104X CER.CAPACITOR 10 16V C131 NCF31CZ-104X CER.CAPACITOR 10 10V C131 NGF31CZ-104X CER.CAPACITOR 1200p 50V C134 NGF31CZ-104X CER.CAPACITOR 1200p 50V C134 NGF31CZ-104X CER.CAPACITOR 1200p 50V C134 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CAPACITOR 10 10V C138 NGF31CZ-104X CER.CA				1.4446
C112 NCS31HJ-181X CER.CAPACITOR 0.1 16V C114 NBE21EM-105X CER.CAPACITOR 0.1 16V C116 NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-103X CER.CAPACITOR 0.1 16V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 10 10V NCB31HK-162X CER.CAPACITOR 10 10V NCB31HK-162X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 11 25V NCB31HK-103X CER.CAPACITOR 11 25V NCB31HK-103X CER.CAPACITOR 11 25V NCB31HK-103X CER.CAPACITOR 11 16V NCB31HK-151X CER.CAPACITOR 11 16V NCB31HK-151X CER.CAPACITOR 11 16V NCB31HK-151X CER.CAPACITOR 11 16V NCB31HK-103X CER.CAPACITOR 11 16V NCB31HK-103X CER.CAPACITOR 10 16V NCB31HK-103X CER.CAPACITOR 10 16V NCB31HK-103X CER.CAPACITOR 10 16V NCB31HK-103X CER.CAPACITOR 10 16V NCB31HK-103X CER.CAPACITOR 10 16V NCB31HK-122X CER.CAPACITOR 10 10V NCB31HK-122X CER.CAPACITOR 10 10V NCB31HK-122X CER.CAPACITOR 1200p 50V NCB31HK-122X CER.CAPACITOR 1200p 50V NCB31HK-122X CER.CAPACITOR 10 10V NCB31HK-122X CER.CAPACITOR 10 10V NCB31HK-122X CER.CAPACITOR 10 10V NCB31HK-102X CER.CAPACITOR 10 10V NCB31HK-102X CER.CAPACITOR 10 10V NCB31HK-102X CER.CAPACITOR 10 10V NCB31HK-102X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103X CER.CAPACITOR 10 10V NCB31HK-103	C110	NBE21AM-106X	TAN.CAPACITOR	10 100
C113 NCF31CZ-104X CER.CAPACITOR 1 1 25V C116 NCF31CZ-104X CER.CAPACITOR 1 1 25V C116 NCF31CZ-104X CER.CAPACITOR 0.1 16V C116 NCB31HK-103X CER.CAPACITOR 0.01 50V C117 NDC31HJ-330X CER.CAPACITOR 10 10V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C119 NCB31HK-152X CER.CAPACITOR 10 10V C120 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C123 NCB31HK-103X CER.CAPACITOR 33p 50V C124 NBE21EM-105X TAN.CAPACITOR 0.01 50V C126 NCS31HJ-151X CER.CAPACITOR 0.1 125V C126 NCS31HJ-151X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 0.1 16V C129 NBE21AM-106X TAN.CAPACITOR 0.1 16V C129 NBE21AM-106X TAN.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 0.1 16V C133 NCB31HK-122X CER.CAPACITOR 0.1 16V C133 NCB31HK-122X CER.CAPACITOR 0.1 16V C135 NCS31HJ-40X CER.CAPACITOR 0.1 16V C136 NCS31HJ-40X CER.CAPACITOR 0.1 16V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 1000p 50V				
C114 NBE21EM-105X TAN.CAPACITOR 0.1 16V C116 NCF31CZ-104X CER.CAPACITOR 0.01 50V C117 NDC31H4-103X CER.CAPACITOR 0.01 50V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C119 NCB31HK-152X CER.CAPACITOR 1500p 50V C120 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 10 10V C121 NCB31HK-103X CER.CAPACITOR 10 10V C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C123 NCB31HK-103X CER.CAPACITOR 0.01 50V C125 NCF31CZ-104X CER.CAPACITOR 0.01 50V C126 NCF31CZ-104X CER.CAPACITOR 0.1 16V C126 NCF31CZ-104X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE21AM-106X TAN.CAPACITOR 10 10V C128 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C133 NCF31CZ-104X CER.CAPACITOR 0.1 16V C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-801X CER.CAPACITOR 0.1 16V C136 NCS31HJ-801X CER.CAPACITOR 0.1 16V C136 NCS31HJ-801X CER.CAPACITOR 0.1 16V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139	C112			1 P
C115 NCF31CZ-104X CER.CAPACITOR 0.1 16V C116 NCB31HK-103X CER.CAPACITOR 0.01 50V C117 NDC31HJ-330X CER.CAPACITOR 10 10V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 1500p 50V C123 NCB31HK-103X CER.CAPACITOR 1500p 50V C124 NBE21AM-106X TAN.CAPACITOR 1 10V C126 NCB31HK-103X CER.CAPACITOR 0.01 50V C126 NCB31HK-103X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 10V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C129 NBE21AM-106X TAN.CAPACITOR 10 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-12X CER.CAPACITOR 10 10V C133 NCB31HK-12X CER.CAPACITOR 10 10V C134 NCF31CZ-104X CER.CAPACITOR 10 10V C135 NCS31HJ-881X CER.CAPACITOR 10 16V C136 NCS31HJ-861X CER.CAPACITOR 0.1 16V C137 NB21AM-106X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.0 1 16V C139 NCF31HX-102X CER.CAPACITOR 1000p 50V C134 NCF31CZ-104X CER.CAPACITOR 1000p 50V C134	C113	NCF31CZ-104X	CER.CAPACITOR	
C116 NCB31HK-103X CER.CAPACITOR 33p 50V C117 NDC31HJ-330X CER.CAPACITOR 10 10V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C120 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 10 10V C122 NDC31HJ-330X CER.CAPACITOR 10 10V C123 NCB31HK-152X CER.CAPACITOR 33p 50V C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C122 NCB31HK-103X CER.CAPACITOR 1 10 10V C126 NCF31C2-104X CER.CAPACITOR 1 1 25V C126 NCF31C2-104X CER.CAPACITOR 0.01 16V C127 NCF31C2-104X CER.CAPACITOR 0.1 16V C128 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X CER.CAPACITOR 10 16V C130 NCF31C2-104X CER.CAPACITOR 10 16V C131 NCF31C2-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 10 16V C133 NCB31HK-122X CER.CAPACITOR 0.1 16V C134 NCF31C2-104X CER.CAPACITOR 10 10V C135 NCS31HJ-861X CER.CAPACITOR 10 10V C136 NCS31HJ-861X CER.CAPACITOR 0.1 16V C137 NBE21AM-106X CER.CAPACITOR 0.1 16V C138 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C131 NCF31C2-104X CER.CAPACITOR 0.1 16V C138 NCS31HJ-861X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C131 NCF31C2-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-102X CER.CAPACITOR 0.1 16V C134 NCF31C2-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-360X CER.CAPACITOR 0.1 16V C136 NCS31HJ-360X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-105X CER.CAPACITOR 1000p 50V C201 NCB31HK-105X CER.CAPACITOR 10	C114	NBE21EM-105X	TAN.CAPACITOR	1,
C117 NDC31HJ-330X CER.CAPACITOR 10 10V C118 NBE21AM-106X TAN.CAPACITOR 10 10V C120 NBE21AM-106X TAN.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 10 10V C121 NCB31HK-152X CER.CAPACITOR 1500p 50V C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C123 NCB31HK-103X CER.CAPACITOR 33p 50V C124 NBE21EM-105X TAN.CAPACITOR 0.01 50V C125 NCF31C2-104X CER.CAPACITOR 0.1 16V C126 NCS31HJ-151X CER.CAPACITOR 0.1 16V C126 NCS31HJ-151X CER.CAPACITOR 0.1 16V C127 NCF31C2-104X CER.CAPACITOR 0.1 16V C128 NBE21AM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31C2-104X CER.CAPACITOR 0.1 16V C131 NCF31C2-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-12X CER.CAPACITOR 0.1 16V C133 NCB31HK-12X CER.CAPACITOR 0.1 16V C133 NCB31HK-12X CER.CAPACITOR 0.1 16V C133 NCB31HK-12X CER.CAPACITOR 0.1 16V C133 NCB31HK-12X CER.CAPACITOR 0.1 16V C135 NCS31HJ-881X CER.CAPACITOR 0.1 16V C136 NCS31HJ-881X CER.CAPACITOR 0.1 16V C136 NCS31HJ-870X CER.CAPACITOR 0.1 16V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.002 25V C203 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-103X CER.CAPACITOR 1000p 50V C201 NCB31HK-103X CER.CAPACITOR 1000p 50V C201 NCB31HK-103X CER.CAPACITOR 1000p 50V C201 NCB31HK-103X CER.CAPACITOR 1000p 50V C201 NCB31HK-103X CER.CAPAC	C115	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C118 NBE21AM-106X CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 1500p 50V CER.CAPACITOR 0.01 50V CER.CAPACITOR 0.01 50V CER.CAPACITOR 1 25V CER.CAPACITOR 0.1 16V CER.CAPACITOR 1 10V	C116	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C119	C117	NDC31HJ-330X	CER.CAPACITOR	33p 50V
C119			TAN.CAPACITOR	10 10V
C120 NBE21AM-106X				
C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C123 NCB31HK-103X CER.CAPACITOR 0.01 50V NCB31HK-103X CER.CAPACITOR 0.01 50V NCB31HK-103X CER.CAPACITOR 0.1 16V C126 NCB31HJ-151X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 10 10V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C135 NCS31HJ-861X CER.CAPACITOR 0.1 16V C132 NCS31HJ-861X CER.CAPACITOR 0.1 16V C132 NCS31HJ-470X CER.CAPACITOR 0.1 16V C132 NCS31HJ-470X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.00p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50				
C122 NDC31HJ-330X CER.CAPACITOR 33p 50V C123 NCB31HK-103X CER.CAPACITOR 0.01 50V NCB31HK-103X CER.CAPACITOR 0.01 50V NCB31HK-103X CER.CAPACITOR 0.1 16V C126 NCB31HJ-151X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 10 10V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C135 NCS31HJ-861X CER.CAPACITOR 0.1 16V C132 NCS31HJ-861X CER.CAPACITOR 0.1 16V C132 NCS31HJ-470X CER.CAPACITOR 0.1 16V C132 NCS31HJ-470X CER.CAPACITOR 0.1 16V C132 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.02 25V NCB31HK-102X CER.CAPACITOR 0.00p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50V C140 NCB31HK-102X CER.CAPACITOR 1000p 50	C121	NCB31HK-152X	CER CAPACITOR	1500p 50V
C123 NCB31HK-103X CER.CAPACITOR 0.01 50V C126 NCF31C2-104X CER.CAPACITOR 0.1 16V C126 NCF31C2-104X CER.CAPACITOR 0.1 16V C127 NCF31C2-104X CER.CAPACITOR 0.1 16V C127 NCF31C2-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 0.1 16V C130 NCF31C2-104X CER.CAPACITOR 0.1 16V C130 NCF31C2-104X CER.CAPACITOR 0.1 16V C131 NCF31C2-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31C2-104X CER.CAPACITOR 1200p 50V C134 NCF31C2-104X CER.CAPACITOR 1200p 50V C134 NCF31C2-104X CER.CAPACITOR 1200p 50V C134 NCF31C2-104X CER.CAPACITOR 1200p 50V C136 NCF31C2-104X CER.CAPACITOR 1200p 50V C136 NCF31C2-104X CER.CAPACITOR 680p 50V C137 NBE21AM-106X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C139 NCF31C2-104X CER.CAPACITOR 0.1 16V C210 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-102X CER.CAPACITOR 0.01 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CA				
C124 NBE21EM-105X C126 NCF31CZ-104X CER.CAPACITOR 0.1 16V C126 NCS31HJ-151X CER.CAPACITOR 0.1 16V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C135 NCS31HJ-861X CER.CAPACITOR 1200p 50V C136 NCS31HJ-470X CER.CAPACITOR 0.1 16V C135 NCS31HJ-470X CER.CAPACITOR 10 10V C137 NBE21AM-106X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C202 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31HK-103X CER.CAPACITOR 0.01 50V C206 NCB31HK-102X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103				1446
C125 NCF31CZ-104X CER.CAPACITOR D.1 16V C126 NCF31CZ-104X CER.CAPACITOR D.1 16V C127 NCF31CZ-104X CER.CAPACITOR D.1 16V C128 NBE41CM-106X TAN.CAPACITOR D.1 16V C129 NBE21AM-106X TAN.CAPACITOR D.1 16V C130 NCF31CZ-104X CER.CAPACITOR D.1 16V C131 NCF31CZ-104X CER.CAPACITOR D.1 16V C132 NCB31HK-122X CER.CAPACITOR D.1 16V C133 NCB31HK-122X CER.CAPACITOR D.1 16V C134 NCF31CZ-104X CER.CAPACITOR D.1 16V C135 NCB31HJ-881X CER.CAPACITOR D.1 16V C136 NCS31HJ-881X CER.CAPACITOR D.1 16V C136 NCS31HJ-881X CER.CAPACITOR D.1 16V C137 NCF31CZ-104X CER.CAPACITOR D.1 16V C138 NCF31CZ-104X CER.CAPACITOR D.1 16V C139 NCF31CZ-104X CER.CAPACITOR D.1 16V C139 NCF31CZ-104X CER.CAPACITOR D.1 16V C139 NCF31CZ-104X CER.CAPACITOR D.1 16V C139 NCF31CZ-104X CER.CAPACITOR D.1 16V C140 NCF31CZ-104X CER.CAPACITOR D.1 16V C201 NCB31HK-103X CER.CAPACITOR D.1 16V C201 NCB31HK-103X CER.CAPACITOR D.1 16V C202 NCB31HK-103X CER.CAPACITOR D.1 16V C204 NCB31HK-102X CER.CAPACITOR D.1 50V C206 NCB31HK-102X CER.CAPACITOR D.01 50V C206 NCB31HK-102X CER.CAPACITOR D.02 25V C206 NCB31HK-102X CER.CAPACITOR D.000 50V C207 NCB31HK-102X CER.CAPACITOR D.000 50V C208 NCB31HK-102X CER.CAPACITOR D.000 50V C209 NCB31HK-102X CER.CAPACITOR D.000 50V C201 NBE21AM-106X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.01 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C211 NCF31CZ-104X CER.CAPACITOR D.1 16V C221 NCF31HX-103X CER.CAPACITOR D.1 16V C221 NCF31CZ-104X CER.CAPACITOR D.1 16V C221 NCF31CZ-104X CER.CAPACITOR D.1 16V C221 NCF31CZ-104X CER.CAPACITOR D.1 16V C221 NCF31HX-103X CER.CAPACITOR D.1 16V C222 NCF31HX-103X CER.CAPACITOR D.1 10V C222 NCF31HX-103X CER.CAPACITOR D.1 10V C222 NCF31HX-103X CER.CAPACIT				
C126 NCS31HJ-151X CER.CAPACITOR 150p 50V C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-102X CER.CAPACITOR 0.002 25V C203 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.C				
C127 NCF31CZ-104X CER.CAPACITOR 0.1 16V C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 1200p 50V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C135 NCS31HJ-681X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-681X CER.CAPACITOR 10 10V C137 NBE21AM-106X TAN.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.022 25V C203 NCB31HK-102X CER.CAPACITOR 0.022 25V C204 NCB31HK-36X CER.CAPACITOR 0.022 25V C204 NCB31HK-36X CER.CAPACITOR 0.000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-103X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CER.CAPACITOR 1000p 50V C210 NCB31HK-105X CE				
C128 NBE41CM-106X TAN.CAPACITOR 10 16V C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-681X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 16V C202 NCB31HK-152X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 0.022 25V C204 NDC31HK-302X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C212 NCS31HJ-151X CER.CAPACITOR 1500p 50V C213 NCF31CZ-104X CER.CAPACITOR 1500p 50V C216 NCB31HK-103X CER.CAPACITOR 1500p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C217 NCB31HK-103X CER.CAPACITOR 1000p 50V C218 NCB31HK-103X CER.CAPACITOR 1500p 50V C218 NCB31HK-103X CER.CAPACITOR 1000p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C217 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-1				
C129 NBE21AM-106X TAN.CAPACITOR 10 10V C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C135 NCS31HJ-681X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.001 50V C202 NCB31EK-223X CER.CAPACITOR 0.001 50V C202 NCB31HK-102X CER.CAPACITOR 0.002 25V C204 NDC31HJ-3R0X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C212 NCB31HK-103X CER.CAPACITOR 1000p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C216 NCB31HK-103X CER.CAPACITOR 1000p 50V C217 NDC31HJ-330X CER.CAPACITOR 1000p 50V C218 NBE21AM-106X TAN.CAPACITOR 1000p 50V C218 NBE21AM-106X CER.CAPACITOR 1000p 50V C218 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C220 NCB31HK-103X CER.CAPACITOR 1000p 50V C221 NCB31HK-103X CER.CAPACITOR 1000p 50V C222 NCB31HK-103X CER.CAPACITOR 1000p 50V C222 NCB31HK-103X CER.CAPACITOR 1000p 50V C222 NCB31H				
C130 NCF31CZ-104X CER.CAPACITOR 0.1 16V C131 NCF31CZ-104X CER.CAPACITOR 0.1 16V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31EK-223X CER.CAPACITOR 0.01 50V C203 NCB31HK-102X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1500p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C202 NCB31HK-102X CER.CAPACITOR 1000p 50V C203 NCB31HK-102X CER.CAPACITOR 1000p 50V C204 NCB31HK-102X CER.CAPACITOR 1000p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 150p 50V C211 NCF31CZ-104X CER.CAPACITOR 150p 50V C212 NCS31HJ-330X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 10 10V C216 NCB31HK-103X CER.CAPACITOR 10 10V C217 NCC31HJ-330X CER.CAPACITOR 10 10V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 10 10V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C223 NCB31HK-152X CER.CAPACITOR 1500p 50V C224 NCB31HK-152X CER.CAPACITOR 1500p 50V C225 NCB31HK-152X CER.CAPACITOR 1500p 50V				1
C131 NCF31CZ-104X CER.CAPACITOR 1200p 50V C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 1200p 50V C135 NCS31HJ-881X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCF31CZ-104X CER.CAPACITOR 1000p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C210 NCF31CZ-104X CER.CAPACITOR 1500p 50V C222 NCF31HJ-330X CER.CAPACITOR 1500p 50V C222 NCF31HJ-330X CER.CAPACITOR 1500p 50V C222 NCF31HJ-330X CER.CAPACITOR 1500p 50V C222 NC				1.0
C132 NCB31HK-122X CER.CAPACITOR 1200p 50V C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-881X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C210 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 0.022 25V C204 NDC31HJ-3R0X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NBE21AM-106X TAN.CAPACITOR 1000p 50V C210 NBE21AM-106X CER.CAPACITOR 0.1 16V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 0.1 16V C219 NCB31HK-152X CER.CAPACITOR 0.1 10V C210 NCB31HK-152X CER.CAPACITOR 0.1 10V C211 NCB31HK-152X CER.CAPACITOR 0.1 10V C212 NCB31HK-152X CER.CAPACITOR 0.1 10V C213 NCB31HK-152X CER.CAPACITOR 0.1 10V C214 NCB31HK-152X CER.CAPACITOR 0.1 10V C220 NCB31HK-152X CER.CAPACITOR 1.0 10V C221 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB31HK-152X CER.CAPACITOR 1.0 10V C222 NCB			055 045401705	101
C133 NCB31HK-122X CER.CAPACITOR 1200p 50V C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1500p 50V C204 NCB31HK-102X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C213 NCF31CZ-104X CER.CAPACITOR 1000p 50V C214 NCF31CZ-104X CER.CAPACITOR 1000p 50V C215 NCF31CZ-104X CER.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 150p 50V C215 NCF31CZ-104X CER.CAPACITOR 1 150p 50V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 0.1 16V C219 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C219 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C219 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C220 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C221 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C222 NCB31HK-152X CER.CAPACITOR 10 0.1 10V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-				1 ***
C134 NCF31CZ-104X CER.CAPACITOR 0.1 16V C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C202 NCB31EK-223X CER.CAPACITOR 0.01 50V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1500p 50V C205 NCB31HK-102X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 150p 50V C214 NBE21EM-105X TAN.CAPACITOR 150p 50V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 1 25V C217 NDC31HJ-330X CER.CAPACITOR 1 25V C218 NBE21AM-106X TAN.CAPACITOR 1 25V C219 NCB31HK-103X CER.CAPACITOR 1 100 10V C219 NCB31HK-152X CER.CAPACITOR 1 100 10V C219 NCB31HK-152X CER.CAPACITOR 1 100 10V C219 NCB31HK-152X CER.CAPACITOR 1 100 10V C220 NCB31HK-152X CER.CAPACITOR 1 1500p 50V C220 NCB31HK-152X CER.CAPACITOR 1 100 10V C221 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER.CAPACITOR 1 100 10V C222 NCB31HK-152X CER				1.000
C135 NCS31HJ-681X CER.CAPACITOR 680p 50V C136 NCS31HJ-470X CER.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 3p 50V C205 NCB31HK-102X CER.CAPACITOR 1500p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NGC31HJ-330X CER.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 10 10V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V NCB31HK-152X CER.CAPACITOR 1500p 50V				1444
C136 NCS31HJ-470X CER.CAPACITOR 47p 50V C137 NBE21AM-106X TAN.CAPACITOR 10 10V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1500p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C201 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NCB31HK-102X CER.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 1000p 50V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 125V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NCB31HK-103X CER.CAPACITOR 1 10 10V C218 NBE21AM-106X TAN.CAPACITOR 1 125V C218 NBE21AM-106X TAN.CAPACITOR 1 10 10V C219 NCB31HK-152X CER.CAPACITOR 10 10 10V C220 NCB31HK-152X CER.CAPACITOR 10 10 10V C221 NCB31HK-152X CER.CAPACITOR 10 10 10V C222 NCB31HK-152X CER.CAPACITOR 10 100 10V C222 NCB31HK-152X CER.CAPACITOR 10 10 10V C222 NCB31HK-152X CER.CAPACITOR 10 10 10V C222 NCB31HK-152X CER.CAPACITOR 10 100 10V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V				
C137 NBE21AM-106X TAN.CAPACITOR 0.1 16V C138 NCF31CZ-104X CER.CAPACITOR 0.1 16V C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 1000p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 0.1 16V C219 NCB31HK-152X CER.CAPACITOR 0.1 10V C220 NBE21AM-106X TAN.CAPACITOR 10 0.1 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V				1 '
C138				1
C139 NCF31CZ-104X CER.CAPACITOR 0.1 16V C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.1 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1500p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 0.1 16V C219 NCB31HK-152X CER.CAPACITOR 0.1 100 C220 NBE21AM-106X TAN.CAPACITOR 10 100 C221 NCB31HK-152X CER.CAPACITOR 10 100 C222 NCB31HK-152X CER.CAPACITOR 10 100 C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 10 100 C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 10 100 C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V				
C140 NCF31CZ-104X CER.CAPACITOR 0.1 16V C141 NBE41CM-106X TAN.CAPACITOR 0.01 50V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-152X CER.CAPACITOR 1500p 50V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1000p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 0.1 16V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 10 10V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 10 10V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V				1017
C141 NBE41CM-106X TAN.CAPACITOR 10 16V C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31HK-103X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 1000p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 0.1 16V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V				1011
C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 3p 50V C204 NDC31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V	C140	NCF31CZ-104X	CER.CAPACITOR	0.1 16V
C201 NCB31HK-103X CER.CAPACITOR 0.01 50V C202 NCB31EK-223X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 1000p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 1000p 50V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C214 NBE21EM-105X CER.CAPACITOR 0.1 16V	C141	NBE41CM-106X	TAN.CAPACITOR	
C202 NCB31EK-223X CER.CAPACITOR 0.022 25V C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-380X CER.CAPACITOR 1900p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 100p 50V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V	C201		CER.CAPACITOR	0.01 50V
C203 NCB31HK-152X CER.CAPACITOR 1500p 50V C204 NDC31HJ-3R0X CER.CAPACITOR 3p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V				0.022 25V
C204 NDC31HJ-3R0X CER.CAPACITOR 3p 50V C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 1. 25V C214 NBE21EM-105X TAN.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 10 10V C				
C205 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C212 NCS31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C215 NCF31CZ-104X CER.CAPACITOR 0.01 50V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 10 10V <td< td=""><td></td><td></td><td></td><td>1.44-b</td></td<>				1.44-b
C206 NCB31HK-102X CER.CAPACITOR 1000p 50V C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 0.1 16V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 10 10V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C2				
C207 NCB31HK-102X CER.CAPACITOR 1000p 50V C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 10 10V C218 NBE21AM-106X TAN.CAPACITOR 1500p 50V C220 NBE31HK-152X CER.CAPACITOR 1500p 50V C221 NCB31HK-330X CER.CAPACITOR 1500p 50V <				
C208 NCB31HK-102X CER.CAPACITOR 1000p 50V C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCB31HK-103X CER.CAPACITOR 0.1 16V C216 NCB31HK-330X CER.CAPACITOR 0.01 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 1500p 50V				
C209 NCB31HK-102X CER.CAPACITOR 1000p 50V C210 NBE21AM-106X TAN.CAPACITOR 10 10V C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223<				
C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 1500p 50V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HJ-330X CER.CAPACITOR 1500p 50V C222 NCB31HJ-330X CER.CAPACITOR 1500p 50V C222 NCB31HJ-330X CER.CAPACITOR 1500p 50V C223 NCB31HK-103X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 33p 50V				
C211 NCF31CZ-104X CER.CAPACITOR 0.1 16V C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V	C210	NRE21AM.106V	TAN CAPACITOR	10 101/
C212 NCS31HJ-151X CER.CAPACITOR 150p 50V C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.1 16V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 1500p 50V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-152X CER.CAPACITOR 1500p 50V C223 NCB31HK-1530X CER.CAPACITOR 1500p 50V C223 NCB31HK-103X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 33p 50V				
C213 NCF31CZ-104X CER.CAPACITOR 0.1 16V C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 1500p 50V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NCB31HK-103X CER.CAPACITOR 1500p 50V C223 NCB31HK-103X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				
C214 NBE21EM-105X TAN.CAPACITOR 1 25V C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				1
C215 NCF31CZ-104X CER.CAPACITOR 0.1 16V C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				
C216 NCB31HK-103X CER.CAPACITOR 0.01 50V C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				
C217 NDC31HJ-330X CER.CAPACITOR 33p 50V C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V			1	
C218 NBE21AM-106X TAN.CAPACITOR 10 10V C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				
C219 NCB31HK-152X CER.CAPACITOR 1500p 50V C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V		1		1
C220 NBE21AM-106X TAN.CAPACITOR 10 10V C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V	1			1
C221 NCB31HK-152X CER.CAPACITOR 1500p 50V C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V		11003 FR-102A	OLIT.OAI AOTTOTT	
C222 NDC31HJ-330X CER.CAPACITOR 33p 50V C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				1 * =
C223 NCB31HK-103X CER.CAPACITOR 0.01 50V				
		NDC31HJ-330X		1 · - F
C224 NBF21EM-105X TAN CAPACITOR 1 25V				
- 1752 1211 1007 171011011 11	C224	NBE21EM-105X	TAN.CAPACITOR	1 25V

Symbol No.	Part No.	Part Name	Descr	Description	
C225	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C226	NCS31HJ-151X	CER.CAPACITOR	150p	50V	
C227	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C228	NBE41CM-106X	TAN.CAPACITOR	10	16V	
C229	NBE21AM-106X	TAN.CAPACITOR	10	10V	
C230	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C231	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C232	NCB31HK-122X	CER.CAPACITOR	1200p	50V	
C233	NCB31HK-122X	CER.CAPACITOR	1200p	50V	
C234	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C235	NCS31HJ-681X	CER.CAPACITOR	680p	50V	
C236	NCS31HJ-470X	CER.CAPACITOR	47p	50V	
C237	NBE21AM-106X	TAN.CAPACITOR	10	10V	
C238 C239	NCF31CZ-104X NCF31CZ-104X	CER.CAPACITOR CER.CAPACITOR	0.1	16V 16V	
C240	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C241	NBE41CM-106X	TAN.CAPACITOR	10	16V	
C244	NBE41CM-106X	TAN.CAPACITOR	10	16V	
C245	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C246	NBE21AM-106X	TAN.CAPACITOR	10	10V	
C247	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C248	NBE41CM-106X	TAN.CAPACITOR	10	16V	
C249	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C250	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C251	NCB31HK-102X	CER.CAPACITOR	1000p	50V	
C252	NCB31HK-102X	CER.CAPACITOR	1000p	50V	
C253	NDC31HG-101X	CER.CAPACITOR	100p	50V	
C254	NDC31HG-101X	CER.CAPACITOR	100p	50V	
C255	NDC31HG-101X	CER.CAPACITOR	100p	50V	
C256	NCS31HJ-470X	CER.CAPACITOR	47p	50V	
C301	NCS31HJ-221X	CER.CAPACITOR	220p	50V	
C302	NCS31HJ-221X	CER.CAPACITOR	220p	50V	
C303	NCS31HJ-121X	CER.CAPACITOR	120p	50V	
C304	NCS31HJ-121X	CER.CAPACITOR	120p	50V	
C305	NCB31HK-103X	CER.CAPACITOR	0.01	50V	
C306	NCB31HK-103X	CER.CAPACITOR	0.01	50V	
C307	NDC31HG-100X	CER.CAPACITOR	[10p	50V	
C308	NDC31HG-100X	CER.CAPACITOR	10p	50V	
C309	NDC31HG-100X	CER.CAPACITOR	10p	50V	
C310	NDC31HG-100X	CER.CAPACITOR	10p	50V	
C311	NDC31HG-100X	CER.CAPACITOR	10p	50V	
C312	NDC31HG-100X	CER.CAPACITOR	10p	50V	
C315	NBE41VM-225X	TAN.CAPACITOR	2.2	35V	
C316	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C320	NCF31CZ-104X	CER.CAPACITOR	0.1	16V	
C321	NDC31HJ-3R0X	CER.CAPACITOR	3р	50V	
C322	NDC31HJ-3R0X	CER.CAPACITOR	3p	50V	
C323	NDC31HJ-3R0X	CER.CAPACITOR	3p	50V	
C324	NDC31HJ-3R0X	CER.CAPACITOR	3p	50V	
1.104	NOI 104 LOON	COIL	22		
L101	NQL124J-220X	COIL	22uH		
L102	NQL124M-1R0X	COIL	1uH		
L103	NQL124J-220X	COIL	22uH		
L104	NQL124M-1R0X	COIL	1uH		
L201	NQL124J-220X	COIL	22uH		
L202	NQL124M-1R0X	COIL	1uH		
L203	NQL124J-220X	COIL	22uH		
L204	NQL124M-1R0X	COIL	1uH		
L301	NQL124M-1R0X	COIL	1uH		
L302	NQL124M-1R0X	COIL	1uH		
L303	NQL124M-1R0X	COIL	1uH		
L304	NQL124M-1R0X	COIL	1uH		
CNIOO	DG701022 0117	CONNECTOR	11PIN		
	PGZ01932-011Z SCV2596-028W	CONNECTOR	28PIN		
	PGZ01932-017Z	CONNECTOR	17PIN		
TP	SSV1096-001	TEST POINT	TP101-210		
••	23500 001	.257.7 01117			
			1		

FERRATE BEADS

K101 PGZ00627Z

6.7 OPERATION BOARD ASSEMBLY PARTS LIST 0 7 SLK2048-02-00B

Symbol No.	Part No.	Part Name	Description	Syn
K102 K103 K201 K202	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS		IC IC
K203 K204 K205 K301 K303	PGZ00627Z PGZ00627Z PGZ00627Z PGZ00627Z PGZ01823-121AZ	FERRATE BEADS FERRATE BEADS FERRATE BEADS FERRATE BEADS EMI FILTER		D D D
K304 K305	PGZ01823-121AZ PGZ01823-121AZ	EMI FILTER EMI FILTER EMI FILTER		D
K306	PGZ01823-121AZ	EMI FILTER		R R R R R R R R
				R R R R
	-			
				SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
3				
				6.8
				Sy

ymbol No.	Part No.	Part Name	Descr	iption
IC901	M66312FP-X	I.C.(M)	MITSUBISHI	
IC902	TC4S584F-X	I.C.(M)	TOSHIBA	
IC903	TC4S584F-X	I.C.(M)	TOSHIBA	
D901	SLM-13VWF-X	L.E.D.		
D902	SLM-13VWF-X	L.E.D.		
D903	SLM-13VWF-X	L.E.D.		
D904	SLM-13VWF-X	L.E.D.	1	
D905	SLM-13VWF-X	L.E.D.		
D906	DAN202U-X	DIODE	ROHM	
R901	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R902	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R903	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R904	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R905	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R906	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R907	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R908	NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR	10k 10k	1/16W 1/16W
R909 . R910	NRSA63J-103X NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R911	NRSA63J-224X	M.G.RESISTOR	220k	1/16W
R912	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R913	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R914	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R915	NRSA63J-561X	M.G.RESISTOR	560 560	1/16W 1/16W
R916	NRSA63J-561X	M.G.RESISTOR M.G.RESISTOR	560	1/16W
R917 R918	NRSA63J-561X NRSA63J-334X	M.G.RESISTOR	330k	1/16W
nsio	NN3A03J-334A	Wi.G.RESISTON	SSOK	171077
C901	NBE21EM-105X	TAN.CAPACITOR	1	25V
C902	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C903	NCF31CZ-104X	CER.CAPACITOR	0.1	16V
C904	NCF31CZ-104X	CER.CAPACITOR	0.1	16V 16V
C905	NCF31CZ-104X	CER.CAPACITOR	0.1	100
L901	NQL114K-100X	COIL	10uH	
\$901	PGZ01249	TACT SWITCH	ISTOP	
S902	PGZ01249	TACT SWITCH	REW	
S903	PGZ01249	TACT SWITCH	FF	
S904	PGZ01249	TACT SWITCH	PLAY	
S905	PGZ01249	TACT SWITCH	EJECT	
S906	NSW0052-001X	PUSH SW	OPERATE	
CN901	PGZ01932-010Z	CONNECTOR	10PIN	
		·		

5.8 LI-BATT BOARD ASSEMBLY PARTS LIST 08 SLK2048-03-00B 08

92.20.0000			
Symbol No.	Part No.	Part Name	Description
CN802	SSV2637-L02 YQ44289-1-1 YQ44288-1-1	CONNECTOR CONNECTOR CONNECTOR	2PIN 1PIN 1PIN

6.9 IO JUNCTION BOARD ASSEMBLY PARTS LIST 10 SLK1048-01-00C

Symbol No.	Part No.	Part Name	Description
D301 D302 D303 D304	EA60QC04 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1	DIODE ZENER DIODE ZENER DIODE ZENER DIODE	NIHON INTER NEC NEC NEC
LD301	SLR-55VC3F	LED	
LH301	PQ43191	LED HOLDER	FOR LD301
C301 C306 C307	QETB1EM-478 QCZ0208-103 QCZ0208-103	E.CAPACITOR CER.CAPACITOR CER.CAPACITOR	4700 25V 0.01 0.01
S301 S302 S303	QSW0452-001 QSW0452-001 QSW0452-001	SLIDE SW SLIDE SW SLIDE SW	AUD2 +48V TALLY ON/OFF AUD1 +48V
CN301 CN302 CN303 CN304 CN306 CN306 CN307 CN308 CN309 CN310	SSV1790-S02 PU59555-2 SSV1790-S02	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	4PIN 2PIN 2PIN 2PIN 10PIN 10PIN 2PIN 2PIN 2PIN 2PIN 2PIN 2PIN
ДБС301 ДБС302 ДБС303 ДБС304 ДБС305 ДБС306 ДБС307 ДБС308	SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z SSV2497-001Z	FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER FUSE HOLDER	
JK301 JK302	QNS0036-001 QNS0037-001	3.5 JACK 3.5 JACK	3.5 3.5
ТВ	SQMX002-001Z	TERMINAL	TB301-B304

6.11 CONNECTOR BOARD ASSEMBLY PARTS LIST 12 SLK1048-03-00B

Symbol No.	Part No.	Part Name		Description
D101 D102 D103 D104 D105	RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1 RD9.1EW-T1	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	NEC NEC NEC NEC	
VR101	QVQ0029-B53	VAL.RESISTOR	5k	TRACKING
CN101 CN102	PU60566-108 PU59555-103	CONNECTOR CONNECTOR	8PIN 3PIN	
JK101 JK102	SCV2798-001 PGZ02430	2P RCA JACK BNC JACK		

6.12 POWER SW BOARD ASSEMBLY PARTS LIST 13 SLK1048-04-00A 13

SL	.N 1040-04-00A		
Symbol No.	Part No.	Part Name	Description
S401	PGZ00597	SWITCH	POWER SWITCH
вкт	PRD44891	BRACKET	FOR POWER SW
	SSV1790-S02 SCV1978-L07	CONNECTOR CONNECTOR	2PIN 7PIN
TP	PU54983	TEST POINT	TP401-TP406

6.13 DC OUT BOARD ASSEMBLY PARTS LIST 14 SLK1048-05-00B

Symbol No.	Part No.	Part Name	Description
		A	

6.10 50P CONN. BOARD ASSEMBLY PARTS LIST 111 SLK1048-02-00B

No.	Part No.	Part Name		Description
D	RD9.1EW-T1	ZENER DIODE	NEC	D201-D222
R201 R202	QRE141J-102Y QRE141J-103Y	CAR.RESISTOR CAR.RESISTOR	1k 10k	1/4W 1/4W
	PU60566-120 SCV1978-L08 SSV1209-L02 PGZ01759	CONNECTOR CONNECTOR CONNECTOR CONNECTOR	20PIN 8PIN 2PIN 50PIN	
SPC	PRD30030-146	SPACER		

6.14 MECHA. I/F BOARD ASSEMBLY PARTS LIST 15 SLK2045-01B

Part No.	Part Name	Description
SCV2596-030W	CONNECTOR	30PIN
SCV1770-003	CONNECTOR	3PIN
SSV2637-L02	CONNECTOR	2PIN
SSV2637-L03	CONNECTOR	3PIN
SSV2637-L03	CONNECTOR	3PIN
SSV2637-L04	CONNECTOR	4PIN
SCV1770-003	CONNECTOR	3PIN
SSV2637-L02	CONNECTOR	2PIN
SSV2637-L05	CONNECTOR	5PIN
SCV1770-004	CONNECTOR	4PIN
SCV1770-002	CONNECTOR	2PIN
SSV2637-L02	CONNECTOR	2PIN
	SCV2596-030W SCV1770-003 SSV2637-L02 SSV2637-L03 SSV2637-L04 SCV1770-003 SSV2637-L02 SSV2637-L02 SSV2637-L05 SCV1770-004	SCV2596-030W CONNECTOR SCV1770-003 CONNECTOR SSV2637-L02 CONNECTOR SSV2637-L03 CONNECTOR SSV2637-L04 CONNECTOR SCV1770-003 CONNECTOR SSV2637-L02 CONNECTOR SSV2637-L05 CONNECTOR SCV1770-004 CONNECTOR SCV1770-004 CONNECTOR SCV1770-004 CONNECTOR SCV1770-002 CONNECTOR SCV1770-002 CONNECTOR

6.15 DRUM MDA BOARD ASSEMBLY PARTS LIST 16 SLK2036-00A

(

Symbol No.	Part No.	Part Name	Description
IC1 IC2 IC3	BA10393F-X BA10358F-X BA6441FP-X	I.C.(M) I.C.(M) I.C.(M)	ROHM ROHM ROHM
Q1 Q2	2SC4081/QRS/-X 2SA1576A/QRS/-X	TRANSISTOR TRANSISTOR	ROHM ROHM
D2	MA3020-X	ZENER DIODE	MATSUSHITA
R1 R2 R3 R4 R5 R6 R7 R9 R10	NRSA63J-103X NRSA63J-0R0X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-102X NRSA63J-102X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 0 1/16W 47k 1/16W 10k 1/16W 56k 1/16W 10k 1/16W 470k 1/16W 1k 1/16W 8.2k 1/16W 10k 1/16W
R12 R13 R14 R15 R16 R17 R18 R19 R20 R21	NRSA63J-103X NRSA63J-222X NRSA63J-105X NRSA63J-563X NRSA63J-274X NRSA63J-332X NRSA63J-103X NRSA63J-101X NRSA63J-103X NRSA63J-103X NRSA63J-103X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 2.2k 1/16W 1/16W 56k 1/16W 270k 1/16W 1/16W 10k 1/16W 100 1/16W 100 1/16W 100k 1/16W 100k 1/16W 100k 1/16W 1/1
R22 R23 R24 R25 R26 R27 R28	NRSA63J-103X NRSA63J-102X NRSA63J-562X NRSA63J-103X NRSA63J-121X NRSA63J-121X NRSA63J-121X NRS144J-R68X	M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR M.G.RESISTOR	10k 1/16W 1k 1/16W 5.6k 1/16W 10k 1/16W 120 1/16W 120 1/16W 0.68 1/4W
C1 C4 C5 C6 C7 C8 C9 C10 C11 C12	NCB31EK-223X NCF31CZ-104X NEH71EM-476X NCB31EK-223X NCF31CZ-104X NCF31EZ-473X NCB31HK-102X NCS31HJ-471X NCF31CZ-104X NBE41CM-106X	CER.CAPACITOR CER.CAPACITOR E.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	0.022 25V 0.1 16V 47 25V 0.022 25V 0.1 16V 0.047 25V 1000p 50V 470p 50V 0.1 16V
C13 C14 C15 C16 C17 C18 C19 C20 C21	NBE21EM-105X NCB31HK-103X NCB31HK-103X NEN21HM-224X NEN21HM-224X NEN21HM-224X NCF31CZ-104X NCF31CZ-104X NCF31CZ-104X	TAN.CAPACITOR CER.CAPACITOR CER.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR N.P.CAPACITOR CER.CAPACITOR CER.CAPACITOR CER.CAPACITOR	1 25V 0.01 50V 0.01 50V 0.22 50V 0.22 50V 0.22 50V 0.1 16V 0.1 16V
L1	NQL124J-470X	COIL	47uH
CN1 CN2	PGZ01932-010Z PGZ01932-015Z	CONNECTOR CONNECTOR	10PIN 15PIN
K1 K2 K3	PGZ00627Z PGZ00627Z PGZ00627Z	FERRATE BEADS FERRATE BEADS FERRATE BEADS	

6.16 A/C HEAD BOARD ASSEMBLY PARTS LIST 17 SLK2046-05-00B

Symbol No.	Part No.	Part Name	Description	
CN501	SCV1978-L10	CONNECTOR	10PłN	

6.17 MODE SENSE BOARD ASSEMBLY PARTS LIST 18 SLK2046-01-00B

31	-N2U40-U1-UUD		
Symbol No.	Part No.	Part Name	Description
CN401	SCV1978-S05	CONNECTOR	5PIN

6.18 AL SENSE BOARD ASSEMBLY PARTS LIST 19 SLK2046-02-00B

	INEUTO DE OUD			
Symbol No.	Part No.	Part Name	Description	
PC101	ON1023	PHOTO COUPLER		
CN101	SCV1978-L03	CONNECTOR	3PIN	

6.19 TU REEL FG BOARD ASSEMBLY PARTS LIST 20 SLK2046-03-00B 20

Symbol No.	Part No.	Part Name	Description
PC201	TLP853	PHOTO COUPLER	TOSHIBA
CN201	SCV1978-L03	CONNECTOR	3PIN
			-

6.20 SP REEL FG BOARD ASSEMBLY PARTS LIST 21 SLK2046-04-00B

Symbol No.	Part No.	Part Name	Description
PC301	TLP853	PHOTO COUPLER	TOSHIBA
CN301	SCV1978-L03	CONNECTOR	3PIN
	; ;		

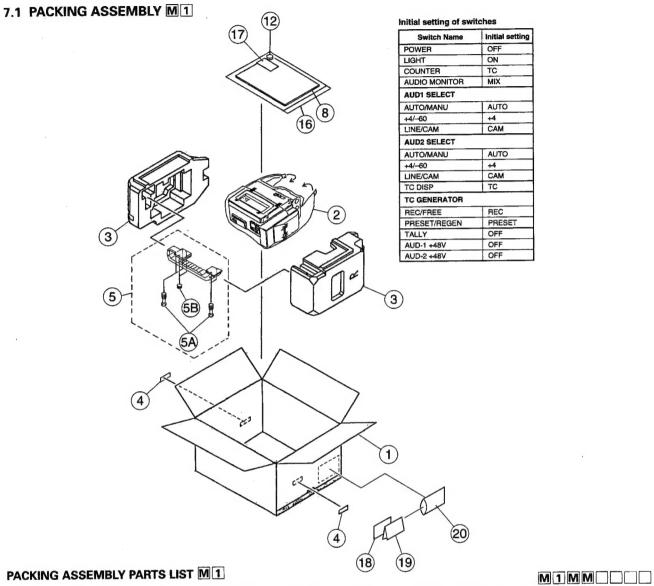
6.21 BEGIN SENSE BOARD ASSEMBLY PARTS LIST 22 SLK2047-01-00A 22 2

Symbol No.	Part No.	Part Name	Description
Q101	PN268-NC/P1/	TRANSISTOR	MATSUSHITA
CN101	SCV1978-L03	CONNECTOR	3PIN
:			

6.22 END SENSE BOARD ASSEMBLY PARTS LIST 23 SLK2047-02-00A

JLN2047-02-00A			
Symbol No.	Part No.	Part Name	Description
Q201	PN268-NC/P1/	TRANSISTOR	MATSUSHITA
CN201	SCV1978-L03	CONNECTOR	3PIN

SECTION 7 PACKING



Symbol No.	Part No.	Part Name	Description
1	_	CARTON BOX	
2	_	PLASTIC BAG	
3	_	CUSHION	
4	_	BLANK LABEL	
5	PGS30196A-02	HANDLE ASSEMBLY	
5A	SC43390-001	SCREW	
5B	SC45291	CAP	
Δ 8	SL96071	INSTRUCTIONS	(E)
\triangle	SL96070	INSTRUCTIONS	(U) sw
12	_	LI BATTERY	CR2032 or equivalent
16	_	PLASTIC BAG	
17	_	SAFETY GUIDE	
18	_	SERVICE INFORMATION CARD	
19	_	WARANTY CARD	
20	-	PLASTIC BAG	